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Readers should note that American spelling is used throughout the Subject Index.

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Information for Contributors

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Bioenergetics covers the area of biological energy transfer and conversion, focusing on the kinetics and thermodynamics of molecular mechanisms involved in photosynthesis, mitochondrial and bacterial respiration, oxidative phosphorylation, motility and transport, as well as the underlying molecular structures. This section also includes Reviews on Bioenergetics.

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Gene Structure and Expression covers DNA and RNA structure, DNA replication and expression, damage and repair, transcription mechanisms and factors, translation, RNA processing, control of gene expression, cell-cycle control, gene rearrangements and recombination, nucleic acid – ligand interactions, DNA-modifying enzymes, viral systems and molecular genetics. This section also includes Short sequence-papers describing DNA and RNA sequences for protein coding, regulatory or structural elements, and promoter papers describing sequence and functional analysis of promoter and enhancer regions. Short sequence-papers are also published in other sections of BBA when this is more appropriate.

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Subsection: Lipids in Signalling and Recognition: concentrates on all biochemical and biophysical aspects of lipids and lipid-derived messenger molecules, including their structure, physicochemical properties and transport, regulation and enzymology of their biosynthesis and metabolic inactivation, and the recognition processes underlying their biological activities.

Molecular Cell Research focuses on cellular processes at the molecular level. These include aspects of intracellular trafficking, regulation of the secretory and endocytic pathways, sorting and targetting, organisation and dynamics of of cytoskeletal structures, cellular interactions, cell cycle regulation, cell/tissue differentiation and cellular enzymology. Also included are studies at the interface between Cell Biology and Biophysics which apply for example novel imaging methods for characterizing cellular processes. Excluded, however, are studies describing purely cellular or pharmacological aspects.

Subsection: Signal Transduction primarily focuses on hormone and neurotransmitter action, receptor structure and regulation, transmembrane signalling systems, second messengers, protein phosphorylation, and calcium in signal transduction.

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Reviews on Cancer Online available on the World Wide Web at: http://www.elsevier.nl/locate/roco or http://www.elsevier.com/locate/roco

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The entire text, including figure and table legends and the reference list, should be typed (or printed out) with double or triple spacing on one side of the paper, leaving a left margin of approx. 3 cm. All pages should be numbered consecutively, starting with the title page of the manuscript. Every new paragraph should be clearly indented. Handwritten characters should be clearly defined in the margin. Expressions of Latin origin, for example, in vivo, in vitro, et al., per se, should be typed in normal typeface. They should be neither italicized nor underlined.

Equations should be numbered in the right margin as follows:

$$A + B \rightarrow C + D \qquad (1)$$

Title page

The title should be concise, descriptive and informative. The names of the authors should be followed by their addresses and

indicated by corresponding letters. Changes in address should be indicated by footnotes. The author(s) to whom correspondence and proofs should be sent should be indicated, giving a full address (including fax number and e-mail address).

Authors are requested to select a maximum of six key words and to present them on the title page of the typescript. These key words will be used in the compilation of the annual cumulative index. They should cover precisely the contents of the submitted paper and should give readers sufficient information as to the relevance of the paper to his/her particular field.

Summary

The second page of the typescript should be reserved for the Summary. This should be self-explanatory and intelligible without reference to the body of the paper.

A Regular paper should have a Summary of 100–200 words; Rapid reports and Short sequence-papers should have summaries of approximately 50 words.

Since summaries are increasingly used by abstracting services which will cut off after a fixed number of words, it is important not to exceed the maximum number of words and to avoid bibliographic references and non-standard abbreviations.

Regular papers

After the Summary, Regular papers are usually divided into the sections Introduction, Materials and methods, Results, Discussion and Acknowledgements.

Introduction

This is a short section in which the authors should state the reasons for performing the work, with brief reference to relevant previous work.

Materials and methods, Results, Discussion

The section Materials and methods should be detailed enough for readers to reproduce the experiments. Authors should always refer to other work on the same subject, indicating whether or not their experimental results are in agreement with previous work. Conclusions drawn from experiments described in the tables or figures can often appear most conveniently in the Results section. The overall conclusions based on the work reported should be given in the Discussion. In shorter papers the Results and Discussion sections may be combined.

Acknowledgements

Acknowledgements should be presented at the end of the main text in a separate section.

Rapid reports, Short sequence- and Promoter papers

These types of paper are not divided into sections after the summary, except for the reference list. The first paragraph serves as an introduction; acknowledgements are added as a final paragraph before the reference list.

References and citations

The numerical system of references should be used. References in the text should be cited by numbers in square brackets in the order of their citation.

References are listed together in their order of appearance in a separate section at the end of the text under the heading References. All references should be numbered consecutively. References to journals should contain initials and names of all authors, article title, abbreviation of the name of the journal according to the *List of Serial Title Word Abbreviations* (International Serials Data System, 20, rue Bachaumont, 75002 Paris, France. ISBN 2-904938-02-8), volume number, year of publication (between brackets), and page numbers. References to books should also include the title (of series and volumes), initials and names of the editor(s), the publisher and place of publication.

Examples

[1] M. Wikström, J.E. Morgan, M.I. Verkhovshy, Proton and electrical charge translocation by cytochrome-*c* oxidase, Biochim. Biophys. Acta 1318 (1997) 299–306.

[2] E.C. Slater, Biochimica et Biophysica Acta: The Story of a Biochemical Journal, Elsevier Science Publishers, Amsterdam, 1986.

[3] D.E. Vance, Glycerolipid biosynthesis in eukaryotes, in: D.E. Vance, J.E. Vance (Eds.), New Comprehensive Biochemistry, vol. 31, Biochemistry of Lipids, Lipoproteins and Membranes, Elsevier Science B.V., Amsterdam, 1996, pp. 153–181.

Reference to a paper as 'in press' implies that it has been accepted for publication. Evidence (e.g., a photocopy of the note of acceptance from the journal concerned) should accompany the submitted typescript. Papers that are 'in press' should be included as a number in the text. Other papers submitted before or simultaneously with the paper in question should be included as a number in the text and in the References section, stating the name of the journal. Copies of papers that are submitted elsewhere should be provided for inspection by the Editors. Omission of this information will delay publication and may lead to redating of a submitted manuscript. Papers presented at scientific meetings that are not available in published form should not be cited as references in the References section.

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A personal communication should be mentioned in the text as follows: '(M.V. Tervoort, personal communication)'. Authors should not make unauthorized use of personal communications. Personal communications are not to be included in the References section.

Tables

Tables should be used sparingly; they should be used only when the data cannot be presented clearly in the text. Authors are requested to consult recent issues of BBA for the proper table layout.

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Figures and illustrations

Figures should be used to illustrate experimental results clearly. As figures are often reduced to a one-column width, authors should bear in mind the size of BBA's printed page and they should ensure that symbols, lettering and lines are sufficiently large and clear to be legible after reduction. (Column width is 8.4 cm, preferred figure size is approximately double this).

Legends should be collated and typed with double or triple spacing on a separate sheet. A legend should consist of an opening sentence constituting a brief title (without extra capitalization), followed by a brief description of the figure.

All figures should be in a form suitable for reproduction, e.g., drawn in black, on waterproof drawing or tracing paper, or as sharp, glossy prints. Each figure should bear the figure number, the name of the corresponding author and the (shortened) title of the paper on the reverse side. Figures should never be folded and they should never be mounted on heavy card. Continuous or half-tone figures should have their labelling supplied as an overlay, or be supplied in duplicate.

The size of symbols in relation to lettering should be chosen carefully.

Photographs of gels, micrographs, etc., should be glossy and as rich in contrast as possible. For photographs of electrophoretic patterns and electron micrographs four high-quality prints must be provided. If the content of a photograph is likely to suffer as a result of reduction, it should be provided in a size that will fit within BBA's format without reduction (preferred size is 8.4 cm $\times$ 11 cm). In the case of electron micrographs, unit length must be indicated on the figure by a labelled bar.

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Lysophosphatidylcholine:acyl-CoA acyltransferase; Solubilization; Reconstitution; Topological localization; (Pig spleen) (Kerkhoff, C. (1302) 249)

Acyl-CoA synthetase
Δ6-Desaturase; Fatty acid desaturation; Linoleic acid; Computer modeling; Enzyme kinetics; Lysophospholipid acyltransferase (Ivanetich, K.M. (1292) 120)

Acyl-coenzyme A:cholesterol acyltransferase
Cholesterol homeostasis, intracellular free; Homeostasis; Sterol-induced activation; Hepatoblastoma cell; (Human) (Matsuda, H. (1301) 76)

Acylglycerol
Lipase, microbial; Alkylglycerol; Stereoselective hydrolysis; Esterification; Isomerization (Kovac, A. (1301) 57)

Acyl-protein esterase
Thioesterase; Phospholipase A_2 (Nocito, M. (1299) 17)

Acyltransferase
Phosphatidylglycerol; Lysophosphatidylglycerol; Arrhythmia; (Heart) (Cheng, P. (1302) 61)

Adenine nucleotide
Cytokine; Ketone body ratio; Nitric oxide; Rat hepatocyte (Kitade, H. (1311) 20)

Adenine nucleotide carrier
Oxidative phosphorylation efficiency; Mitochondrion; External osmolarity; Matrix volume; Swelling; (Rat liver) (Devin, A. (1273) 13)

Adenine nucleotide translocator
Guanidino propionic acid; Creatine; Mitochondrial inclusion body; Creatine kinase; Metabolism; Oxidative phosphorylation; (Rat) (O'Gorman, E. (1276) 161)

Adenocarcinoma
Calcium-binding protein; Calretinin; Colon adenocarcinoma; HT-29; Differentiation (Cargnello, R. (1313) 201)

Adenosine
Magnesium, free; ATP phosphorylation potential; AMP; 5′-Nucleotidase; Myocardium; (Guinea pig); (Heart) (Mallet, R.T. (1290) 165)

L-selectin; Sulfatide; Oxygen radical; Neutrophil; Tyrosine phosphorylation; Calcium (Bengtsson, T. (1313) 119)

Adenosine agonist
Skeletal muscle; Glucose fatty acid cycle; Insulin action; Diabetes, non-insulin-dependent (Webster, J.M. (1316) 109)

Adenosine A_1 receptor
Desensitization; Internalization; Coated vesicle; Phenylisopropyl adenosine; Rat brain; Adenylyl cyclase (Ruiz, A. (1310) 168)

Adenosine diphosphate
Serotonin; Serotonin transporter; Serotonin uptake; ADP; Platelet (Anderson, G.M. (1283) 14)

Adenosinetriphosphatase
Apyrase (Komoszyński, M. (1310) 233)

Adenosine triphosphate
Creatine phosphate; NMR visibility; Cytosolic concentration; Heart; Phosphorylation ratio (Williams, J.P. (1276) 71)

***S*-Adenosylmethionine decarboxylase**
cDNA cloning; Polyamine; Oogenesis; Maturation; Embryogenesis; Northern blot analysis; (*Xenopus*) (Shinga, J. (1308) 31)

Adenovirus major late promoter
Sarkosyl; Pre-initiation complex; Transcription; Gene expression; RNA polymerase II (Coda-Zabetta, F. (1306) 194)

Adenylate kinase
Anilinonaphthalene sulfate; Equilibrium intermediate; Sequential unfolding; Size-exclusion chromatography; Second derivative spectrum (Zhang, Y.-L. (1295) 239)

Adenylyl cyclase
G protein; Guanine nucleotide; Muscarinic receptor; Myocardium (Piacentini, L. (1282) 11)

Adenosine A_1 receptor; Desensitization; Internalization; Coated vesicle; Phenylisopropyl adenosine; Rat brain (Ruiz, A. (1310) 168)

Vasoactive intestinal peptide; G protein; Peritoneal macrophage; (Rat); (Mouse) (Pozo, D. (1312) 249)

Calcium ionophore; A23187; S49 cell (Nakamura, J. (1313) 6)

G protein; Neutrophil; Signal transduction (Suzuki, T. (1313) 72)

Khellin; Ultraviolet A; G protein; Pertussis toxin; HeLa cell (Di Stefano, A. (1314) 105)

Adenylyl cyclase inhibition
Cannabinoid receptor; Peripheral; Binding property; (Mouse) (Shire, D. (1307) 132)

Adhesion
Articular chondrocytes; Type II transglutaminase; Collagen synthesis; Differentiation; Cell growth (Borge, L. (1312) 117)

Ganglioside; Platelet; Integrin (Valentino, L.A. (1316) 19)

Adiabatic compressibility
Partial specific volume; Polymerization; Actin; Calcium ion regulation; Acoustics (Suzuki, N. (1292) 265)

Adipocyte
Glucagon-like peptide-1(7–36)amide; Glucose uptake; cyclic AMP; (Rat) (Miki, H. (1312) 132)

Adipose tissue
Polyunsaturated fatty acid diet; Lipogenesis gene; Hypertriglyceridemia; Fish oil; (Rat liver) (Šeböková, E. (1303) 56)

ADP
Myofilament sliding; ATP hydrolysis; ATP, caged; Laser flash photolysis; Inorganic phosphate (Wada, H. (1274) 89)

Serotonin; Serotonin transporter; Serotonin uptake; Adenosine diphosphate; Platelet (Anderson, G.M. (1283) 14)

5′-Nucleotidase; Nucleoside phosphotransferase; 2,3-Bisphosphoglycerate (Pesi, R. (1294) 191)

Platelet; Thrombin; Fluo-3; Calcium imaging; Calcium; Cytoplasmic; (Human) (Tao, J. (1311) 164)

Platelet; Tyrosine phosphorylation; Prostaglandin E_1; Thrombin; Focal adhesion kinase (Vostal, J.G. (1314) 1)

ADPase
ATP diphosphohydrolase; Apyrase; Deglycosylation; Subcellular localization; Human placenta (Christoforidis, S. (1282) 257)

ADP/ATP binding
NMR, ^{31}P-; Erythrocyte; Time domain analysis (VAPRO); (Human); (Chicken) (Stubbs, M. (1291) 143)

ADP/ATP carrier
AAC2; Mitochondrial carrier; Second-site revertant (Nelson, D.R. (1275) 133)

ADP-ribose, free
ADP-ribosylation; Glycation; Nitric oxide; Fluoride; (*Artemia*); (Rat liver) (Fernández, A. (1290) 121)

ADP-ribosylation
ADP-ribose, free; Glycation; Nitric oxide; Fluoride; (*Artemia*); (Rat liver) (Fernández, A. (1290) 121)

Parotid gland; Amylase secretion; Guanine nucleotide-binding protein; Phosphorylation; Isoproterenol; (Rat) (Amano, I. (1313) 146)

ADP-ribosylation factor
GTPase; Ras-homologous (Breiner, M. (1308) 1)

Invertebrate; Planaria; Guanine nucleotide binding protein; Protein secretion; Polymerase chain reaction amplification (Saitoh, O. (1309) 205)

Adrenal chromaffin cell
Calcium ion influx; Trichosporin-B; Glioma C_6 cell; Bovine platelet (Tachikawa, E. (1282) 140)

Trichosporin; *Trichoderma polysporum*; Peptaibol; Ion channel; Catecholamine (Nagaoka, Y. (1283) 31)

Adrenaline
Serotonin; Noradrenaline; Platelet; Dense granule; Subpopulation (Smith, C.C.T. (1291) 1)

$Alpha_2$ cell; Calcium ion oscillation; Glucose; Insulin; Amino acid (Berts, A. (1310) 212)

Adrenal steroidogenesis
Cytochrome *P*-450; Liposome; Aldosterone synthesis; Cholesterol; (Metabolism); (Bovine adrenal) (Kominami, S. (1301) 199)

β-Adrenergic receptor
Hypoxia; pH; Ischemia (Schmedtje Jr., J.F. (1314) 25)

β_2-Adrenergic receptor
Transcription; Gene expression; Transfection; Luciferase; Reporter gene (McGraw, D.W. (1305) 135)

α-Adrenergic regulation
Thymidine kinase; Gene expression; Immunoblotting; Liver regeneration; Partial hepatectomy; (Rat) (Tsukamoto, I. (1290) 267)

Adrenocorticotropin
Steroidogenesis; Proteinase; Arachidonic acid (Mele, P.G. (1310) 260)

RT-PCR; Radioimmunoassay; Melanocyte stimulating hormone; Ultraviolet B (Chakraborty, A.K. (1313) 130)

Adriamycin
Propranolol; Potassium ion channel, Ca^{2+}-dependent; Transitional metal; Ion transport inhibition; (Human erythrocyte) (Davtyan, T.K. (1297) 182)

Adsorption
Phosphatidylcholine; Phosphatidylglycerol; Polyelectrolyte; Micellization; Kinetics (Thomas, J.L. (1278) 73)

Potential sensitivity; RH dye; Membrane; Boundary potential; ATPase, Na^+/K^+- (Malkov, D.Yu. (1278) 197)

Advanced glycosylation end product
Atherosclerosis; Autoxidation; U937 cell (Dobrian, A. (1317) 5)

Affinity chromatography
Chloroplast; Nucleoside diphosphate kinase; Immunoblotting; (Spinach) (Yang, L.-M. (1294) 99)

Clusterin; C1q; AMP; ELISA; Immune complex (Roeth, P.J. (1297) 159)

Affinity labelling
Sorbitol; Polyol; Dehydrogenase; Zinc; (Sheep liver) (Lindstad, R.I. (1293) 267)

Affinity purification
Subdomain function; Subunit interaction; Heterologous expression; Superoxide dismutase; Protein fusion; Human (Tibell, L.A.E. (1292) 47)

***60A* gene**
Transforming growth factor-β superfamily; Bone morphogenetic protein; (*Drosophila*) (Du, W. (1307) 273)

***mcpA* gene**
Chemoreceptor; Symbiotic plasmid; Hydrogenase; (*Rh. leguminosarum*) (Brito, B. (1308) 7)

Agent orange
2,4-Dichlorophenoxyacetic acid; Membrane; Phospholipid bilayer (Suwalsky, M. (1285) 267)

Agglutinin
Lipoprotein; Thomsen-Friedenreich; Lectin; T antigen; Lipoprotein (a); (Peanut); (Human) (Lee, L.T. (1302) 79)

Aggregation
Drug–lipid interaction; Isoflavonoid; Liposome; Phosphatidylinositol (Lehtonen, J.Y.A. (1285) 91)

Kinetics; Irreversibility; Stability; Unfolding (Srinivasulu, S. (1294) 115)

Limited proteolysis; Chloroplast; NAD(P)-GAPDH; Light activation; (*S. aureus* endoproteinase V8); (Spinach) (Scheibe, R. (1296) 228)

cis Isomer; *trans* Isomer; Monoenoic fatty acid; Platelet; Thromboxane; Collagen; Thrombin; (Porcine) (Wahle, K.W.J. (1301) 141)

Arachidonic acid; Leukotriene B_4; 5-Hydroxyeicosatetraenoic acid; Polymorphonuclear leukocyte; Diabetes (Nakagawa, Y. (1315) 145)

β-Aggregation
FTIR; Recombinant human granulocyte-macrophage colony-stimulating factor; Disulfide reduction; Thermal denaturation (Jiang, H. (1294) 121)

Aginactin
Actin; Cytoskeleton; Cell motility; Chemotaxis (Eddy, R.J. (1314) 247)

Aging
Mitochondrion; Degenerative disease; Mitochondrial DNA; Permeability transition pore; Mitochondrial channel; Oxidative stress (Zorov, D.B. (1275) 10)

Mitochondrion; Oxidative phosphorylation; Development; (Human) (Papa, S. (1276) 87)

Microclimate pH; pH; Sodium ion/proton antiporter; Unstirred water layer; Water layer, unstirred; (Rat jejunum) (Ikuma, M. (1280) 19)

Plasma membrane; ATPase, H^+-; Transcription; Cutting; (Plant); (Sugar beet) (Noubhani, A.M. (1281) 213)

Albumin; Glycation; Binding; Renal Brush border membrane vesicle (Verbeke, P. (1282) 93)

Calcium-binding protein; 5′ Flanking sequence; Genomic DNA; Senescence marker protein-30 (SMP30); Transcription initiation site; (Mouse liver) (Fujita, T. (1308) 49)

Mitochondrial respiration; Respiratory chain; Ubiquinol cytochrome *c* reductase; Cytochrome *c* oxidase; Cytochrome (Boffoli, D. (1315) 66)

Polyamine; Polyamine *N*-acetyltransferase; Polyamine oxidase; Kidney (Rat) (Ferioli, M.E. (1317) 15)

Agonist
Signal transduction; Mathematical modeling; Membrane receptor; Antagonist; Calcium mobilization (Stickle, D. (1310) 242)

Anomer; Antagonist; Antigen; Glycopeptide; Phosphopeptide; Secondary structure; Serum stability; Sulfopeptide (Otvos Jr., L. (1313) 11)

AHH
Purification; Cytochrome *P*-450; β-Naphthoflavone; (Rat) (Ohgiya, N. (1289) 122)

AICAriboside
Acetyl-CoA carboxylase; AMP-activated protein kinase; HMG-CoA reductase (Henin, N. (1290) 197)

Air/water interface
Cholesterol; Fluorescence microscopy; Liquid; Miscibility; Phospholipid; Ternary mixture (Hagen, J.P. (1280) 169)

Air/water interface monolayer
Ganglioside; Sphingomyelin; Glucosylceramide; Quartz crystal microbalance; Influenza A virus (Sato, T. (1285) 14)

Airway epithelial cell
Tumor necrosis factor; Phospholipase A_2; Arachidonic acid (Wu, T. (1310) 175)

Alamethicin
Cubic phase; Lipid–protein interaction (Keller, S.L. (1278) 241)

Ion channel; Free radical; Ionizing radiation; Tryptophan (Zeidler, U. (1281) 73)

β-Alanine
α-Aminoisobutyric acid; Proximal tubule; (Kidney cell) (Jessen, H. (1282) 225)

Albumin
Glycation; Binding; Renal Brush border membrane vesicle; Aging (Verbeke, P. (1282) 93)

Steroid hormone-albumin binding; Fatty acid effect; Bovine serum albumin; Serum albumin; Association constant; (Human) (Watanabe, S. (1289) 385)

12-Hydroxyeicosatetraenoic acid; Leukotriene; Arachidonic acid; Leukocyte; Platelet (Dadaian, M. (1303) 154)

Retinoic acid; Retinoid; Metabolism; Keratinocyte; Retinoic acid uptake (Hodam, J.R. (1311) 102)

Alcohol dehydrogenase
Hydrostatic pressure; Activation volume; (*T. brockii*); (Yeast) (Dallet, S. (1294) 15)

Poly(ethylene glycol)-bound NAD^+; Kinetic modelling; Reductive amination, stereospecific; Molecular dynamics and mechanics; (Horse liver) (Vanhommerig, S.A.M. (1295) 125)

Proteolytic activation; (*C. idellus*); (Liver); (Grass carp) (Tsui, H.-T. (1296) 41)

Lactate dehydrogenase; Glutamate dehydrogenase; Malate dehydrogenase; Immobilized NAD^+ (O'Carra, P. (1297) 235)

Molecular cloning; Parasite target; (*E. histolytica*) (Rodríguez, M.A. (1306) 23)

Aldoketoreductase
1α,25-Dihydroxyvitamin D_3; Retinoic acid; HL60; Differentiation; Leukemia (Bunce, C.M. (1311) 189)

Aldosterone-induced protein
Amiloride-sensitive sodium transport; Sodium channel; High resistance epithelium; Benzamil; Amiloride (Bindels, R.J.M. (1284) 63)

Aldosterone synthesis
Adrenal steroidogenesis; Cytochrome *P*-450; Liposome; Cholesterol; (Metabolism); (Bovine adrenal) (Kominami, S. (1301) 199)

Aleurain
Seed germination; Thiol proteinase; Cathepsin H; (*P. sativum* L.) (Jones, C.G. (1296) 13)

alg3
Dol-PP-oligosaccharide; β-1,6-Mannose branch; Exoglucanase; (*S. cerevisiae*) (Cueva, R. (1289) 336)

Alginic acid
Coenzyme; Polymerized NAD^+; Electron transfer (Nakamura, Y. (1289) 221)

Alkaline dissociation
Hemoglobin; Extracellular hemoglobin; Oligomeric structure; Methemoglobin; Hemichrome; (*G. paulistus*); (Annelid) (Agustinho, S.C.M. (1298) 148)

Alkaline phosphatase
Glycosylphosphatidylinositol-anchored protein; (*Spirodela oligorrhiza*); (Plant) (Morita, N. (1290) 53)

Phosphorescence emission; Cytochrome *c*; CD and optical spectrum; Conformational change (Dadák, V. (1297) 69)

Alkaliphile
ATP synthase; Sodium ion/proton antiporter; pH homeostasis; Cytochrome *c*; (*Bacillus*) (Krulwich, T.A. (1275) 21)

Cytochrome; Succinate dehydrogenase (Gilmour, R. (1276) 57)

Phosphoserine aminotransferase; Aspartate aminotransferase; Purification; Cloning; Sequencing; (*B. circulans*) (Battchikova, N. (1295) 187)

***n*-Alkanol**
ATPase, Ca^{2+}-; Dibucaine; Tetracaine; Spin label; EPR (Anteneodo, C. (1281) 150)

Alkylglucoside
Sodium/D-glucose cotransport; Brush border membrane; Inhibitor; Glucose-binding pocket; (Kidney) (Kipp, H. (1282) 124)

Alkylglycerol
Lipase, microbial; Acylglycerol; Stereoselective hydrolysis; Esterification; Isomerization (Kovac, A. (1301) 57)

Allergen
Prealbumin; Euglobulin; α_{2u}-Globulin; Partial sequence; (Rat urine) (Bayard, C. (1290) 129)

Allergy
Leader sequence; Venom allergen; IgE-antibody; (*M. pilosula*) (Street, M.D. (1305) 87)

Allosteric enzyme
Pyrimidine nucleotide biosynthesis; Pyrimidine salvage; Thermostability; Phosphoribosyl pyrophosphate; (*S. shibatae*); (*E. coli*) (Linde, L. (1296) 16)

Allosteric modulation
Acetylcholinesterase; Anionic site; Electrostatic interaction; Salt effect; Molecular recognition; Catalytic mechanism (Tõugu, V. (1298) 12)

Alpha$_2$ cell
Calcium ion oscillation; Glucose; Insulin; Amino acid; Adrenaline (Berts, A. (1310) 212)

Alpha helix
Peptide synthesis; Gene engineering; Circular dichroism; De novo design; Hydrophobic interaction (Kojima, S. (1294) 129)

Alpha-toxin
Toxin; Liposome; Phospholipase C; Phospholipid; Fluidity; (*C. perfringens*) (Nagahama, M. (1280) 120)

Alphoid DNA
DNA damage; DNA alkylation; DNA intercalation; Plasmid pUC8; Consensus sequence (Murray, V. (1305) 79)

Alternative pathway
Complement; Factor J; Factor D; Serine proteinase (González-Rubio, C. (1295) 174)

Alternative splicing
Mel-18; cDNA cloning; Genomic structure; Overlapping gene (Tetsu, O. (1305) 109)

Transglutaminase; Retinoic acid; Erythroleukemia cell (HEL) (Fraij, B.M. (1306) 63)

p36; Annexin II; Promoter (Fey, M.F. (1306) 160)

Testosterone-repressed prostate message-2; Cycloheximide; Heat shock (Kimura, K. (1307) 83)

cDNA sequence; Helix-loop-helix; Dominant-negative transcription factor (Hernandez, M.-C. (1308) 28)

Monoclonal antibody; Receptor metabolism; Signal transduction (Feng, S. (1310) 67)

Fibronectin; Cartilage; Chondrogenesis; Type III-9 repeat (Gehris, A.L. (1311) 5)

Aluminum
Brain; Ferritin (San-Marina, S. (1310) 277)

Calcium; Brain; Alzheimer's disease (Julka, D. (1315) 47)

Aluminum fluoride
Calcitonin; Cytochalasin B; Colchicine; Monensin; Vesicular transport (Cremaschi, D. (1280) 27)

Alveolar damage
Oxidant; Catalase; Endocytosis; Transferrin (Rojanasakul, Y. (1315) 21)

Alzheimer's amyloid
Lymphocyte; Cell surface marker; Activation (Bullido, M.J. (1313) 54)

Alzheimer's disease
Calcium; Aluminum; Brain (Julka, D. (1315) 47)

Tau protein; Protein kinase; Phosphorylation; DRB (Medina, M. (1316) 43)

Calcium; Fibroblast; Bradykinin; Mitochondrion (Gibson, G.E. (1316) 71)

Amanitaceae
Mushroom; Fruiting body; Lectin; (*Amanita pantherina*) (Zhuang, C. (1291) 40)

Ambidentate
Thermodynamics; Electron paramagnetic resonance; Heterocyclic amine; Histidine; Morpholine; Myoglobin (Stephanos, J.J. (1295) 209)

Amebocyte
Eicosanoid; High pressure liquid chromatography; Electrospray; Mass spectrometry; Hydroxyeicosatetraenoic acid; (*L. polyphemus*) (MacPherson, J.C. (1303) 127)

Amicyanin
Copper protein, type 1; Cytochrome c_{550}; Inter-protein cross-reaction; Metalloprotein (redox) kinetics; MADH electron-transport chain; (*T. versutus*) (Kyritsis, P. (1295) 245)

Amidase
Consensus pattern; Phylogenic tree (Chebrou, H. (1298) 285)

Amiloride
Cornea; Endothelium; Bicarbonate; Acetazolamide; Fluid flow (Wigham, C.G. (1279) 104)

Amiloride-sensitive sodium transport; Aldosterone-induced protein; Sodium channel; High resistance epithelium; Benzamil (Bindels, R.J.M. (1284) 63)

Amiloride-sensitive sodium transport
Aldosterone-induced protein; Sodium channel; High resistance epithelium; Benzamil; Amiloride (Bindels, R.J.M. (1284) 63)

Amine oxidase
Topa quinone; Quinoprotein; Cofactor; (*A. niger*) (Frébort, I. (1295) 59)

Amine oxidation
Horseradish peroxidase; *trans*-2-Phenylcyclopropylamine (Sayre, L.M. (1296) 250)

Amino acid
Transport kinetics; Volume regulation; Osmolality; Taurine; (Rat brain) (Beetsch, J.W. (1290) 141)

Alpha$_2$ cell; Calcium ion oscillation; Glucose; Insulin; Adrenaline (Berts, A. (1310) 212)

Brain cell; Calcium ion; Cell volume (Law, R.O. (1314) 43)

Amino acid composition
Ovoinhibitor; Domain I; Trypsin inhibitor; Association constant; Molecular weight; (Chicken) (Galzie, Z. (1293) 113)

Amino acid efflux
Brain cell; Cell volume (Law, R.O. (1314) 34)

L-Amino acid oxidase
*aox*A-gene; Cyanobacterium; L-Arginine metabolism; (*Synechococcus* PCC 6301/7942) (Bockholt, R. (1307) 111)

D-Amino acid-peptide hydrolase
Substrate spectrum; Kinetic study; Cilastatin sensitive; Metalloenzyme; (Porcine kidney) (Watanabe, T. (1298) 109)

Amino acid sequence
Peridinin; Peridinin-chlorophyll *a* protein; Light harvesting; Transit sequence; Dinophyceae; (*Amphidinium carterae*) (Sharples, F.P. (1276) 117)

Dipeptidyl peptidase II; Seminal plasma; Purification; Characterization (Huang, K. (1290) 149)

Acetylated N-terminus; cDNA; Protein Z; (*Hordeum vulgare*) (Rasmussen, S.K. (1297) 127)

α_1-Microglobulin; cDNA; Bikunin; Sequence comparison (Lindqvist, A. (1306) 98)

cDNA; Purinergic receptor; Human bladder (Longhurst, P.A. (1308) 185)

GTPase; Gene *50K*; Cotranscription; Reverse transcription-polymerase chain reaction; (*Synechocystis* sp. PCC 6803) (Geisler, M. (1309) 189)

Amino acid transport
Cationic amino acid transport; Peripheral blood mononuclear cell; H13 gene; 4F2 gene; Antisense oligonucleotide; Oligonucleotide; (Human) (Chen, S. (1284) 1)

Aminoacyl-tRNA synthetase
Nucleotide sequence; *Glt* x; Glutamyl-tRNA synthetase; Archaebacterium (Moore, J.A. (1305) 113)

***p*-Aminobenzoate**
Aminodeoxychorismate synthase; Anthranilate synthase; (*E. coli*) (Rayl, E.A. (1295) 81)

4-Aminobenzoate hydroxylase
cDNA cloning; Flavoprotein (Tsuji, H. (1309) 31)

γ-Aminobutyric acid receptor
$GABA_C$ receptor; cDNA, ρ3 (Ogurusu, T. (1305) 15)

Aminodeoxychorismate synthase
p-Aminobenzoate; Anthranilate synthase; (*E. coli*) (Rayl, E.A. (1295) 81)

***S*-2-Aminoethylcysteine**
Collagen conformation; Procollagen; Lysine analogue; Collagen synthesis; Collagen production inhibition (Christner, P. (1294) 37)

α-Aminoisobutyric acid
β-Alanine; Proximal tubule; (Kidney cell) (Jessen, H. (1282) 225)

5-Aminolevulinic acid
Heme biosynthesis; Glutamyl-tRNA reductase; *hemA*; *hemM* (Chen, W. (1309) 109)

Aminophospholipid · MDA
Cataract; Conjugated diene; Hydrogen peroxide; Lipid peroxide; Malondialdehyde; Oxidative stress; (Lens cellular membrane) (Bhuyan, D.K. (1285) 21)

Aminophospholipid translocase
Phospholipid asymmetry; Prothrombinase assay; Erythrocyte membrane vesicle; Membrane skeleton; Vanadate (De Jong, K. (1281) 101)

Phosphatidylserine; Erythrocyte; Phagocytosis; Thalassemia, Eβ- (Srinivasan, P.T. (1285) 65)

Aminopyrine accumulation
Acid secretion; Parietal cell; Calcium ion, free; Calcium ion ionophore A23187; Cytosol (Li, Z.-Q. (1311) 133)

Amino-terminal amino acid sequence
Invertebrate hemoglobin; Hemoglobin; Linker chain; Two-dimensional gel electrophoresis; (*L. terrestris*) (Fushitani, K. (1292) 273)

Ammonium
Nitrate; Nitrogen fixation; Nitrogenase; (*A. chroococcum*) (Muñoz-Centeno, M.C. (1291) 67)

Ammonium assimilation
NMR spectroscopy; Mushroom; *Agaricus* (Baars, J.J.P. (1310) 74)

Ammonium inhibition
HeLa cell; Patch clamp; Calcium ion dependence; Potassium ion current (Díaz, M. (1284) 119)

AMP
Adenosine; Magnesium, free; ATP phosphorylation potential; 5′-Nucleotidase; Myocardium; (Guinea pig); (Heart) (Mallet, R.T. (1290) 165)

Phosphorylase b; Binding; Microcalorimetry; (Liver) (García-Fuentes, L. (1294) 83)

Clusterin; C1q; Affinity chromatography; ELISA; Immune complex (Roeth, P.J. (1297) 159)

cyclic AMP
IGF-II receptor; Phospholipase C; Phosphatase inhibitor; Insulin sensitivity; Plasma membrane; (Rat adipocyte) (Yu, Z.-W. (1282) 57)

Distal tubule; Chloride channel; PTH (Denicourt, N. (1285) 155)

HDL binding; Fibroblast; (Human skin) (Middleton, A. (1302) 84)

Prostanoid receptor; Cross-talk; Protein kinase C; Calcium ion, intracellular; Megakaryocyte (Watanabe, T. (1304) 161)

Gene expression; Transcription; Enhancer; Thyroglobulin (Berg, V. (1307) 35)

Steroidogenesis; Cytochrome *P*-450; Porcine CYP17; Leydig cell; Gene transcription; Nuclear protein (Zhang, P. (1307) 73)

Thyroid; Gene expression; Pax 8 (Van Renterghem, P. (1307) 97)

Insulin receptor substrate-I; Insulin-like growth factor-I; Human chorionic gonadotropin; Phosphorylation; Ovary (Talavera, F. (1310) 10)

Myoblast; $1,25(OH)_2$-vitamin D_3; Protein kinase C; Signal transduction; Calcium ion uptake (Vazquez, G. (1310) 157)

Ras; T cell activation; Protein kinase C (Ohtsuka, T. (1310) 223)

Protein synthesis; L6 myoblast; Insulin; Mitogen-activated protein kinase (Thompson, M.G. (1311) 37)

Glucagon-like peptide-1(7–36)amide; Glucose uptake; Adipocyte; (Rat) (Miki, H. (1312) 132)

Inositol phosphate; Keratinocyte; Transforming growth factor-β; Isoform (Collier, A.J. (1315) 117)

AMP-activated protein kinase
Acetyl-CoA carboxylase; AICAriboside; HMG-CoA reductase (Henin, N. (1290) 197)

AMP deaminase
Tandem promoter; Chromosomal localization; Myoadenylate deaminase deficiency (Mahnke-Zizelman, D.K. (1306) 75)

Tandem promoter; Chromosomal localization (Mahnke-Zizelman, D.K. (1308) 122)

cyclic AMP-dependent protein kinase
α_1 subunit; Dihydropyridine; L-type calcium channel; Phosphorylation site; (Cardiac) (Leach, R.N. (1281) 205)

Neutral cholesterol esterase; Estradiol 17β; Estradiol 17α; J774 A.1 cell; Cholesteryl ester accumulation (Tomita, T. (1300) 210)

Amphibian
Nucleoside diphosphate kinase; Antibody; Muscarinic K^+ channel; Calcium channel; Atrial myocyte (Yi, X.B. (1310) 343)

Amphipathic helix
HDL; NMR, 2-dimensional; Distance geometry; Convex constraint analysis; pH effect (Wang, G. (1301) 174)

Cholesteryl ester transfer protein; Lipid transfer protein; Apolipoprotein; Cholesteryl sulfate; Recessive X-linked ichthyosis; Sperm acrosome; Lipopolysaccharide (Connolly, D.T. (1304) 145)

Amphiphilic compound
Liposome; Asialofetuin; Receptor mediation; Gene transfer; Hepatocyte; (Rat) (Hara, T. (1278) 51)

Amphiphilic peptide
Membrane fusion; α-Helix; Membrane perturbation; Peptide-lipid conjugate (Zhao, J. (1283) 37)

Amphiphilic properties
Acetylcholinesterase; Butyrylcholinesterase; Human meningioma (Sáez-Valero, J. (1317) 210)

2-fluoro-ara-AMP metabolism
Fludarabine; Drug delivery; (Human erythrocyte) (Fraternale, A. (1291) 149)

α-Amylase
Digestive enzyme; Mass spectrometry; (Pancreas); (Rat) (Young, M.K. (1293) 63)

Amylase secretion
Parotid gland; Guanine nucleotide-binding protein; ADP-ribosylation; Phosphorylation; Isoproterenol; (Rat) (Amano, I. (1313) 146)

Amyloid formation
Familial amyloidotic polyneuropathy; Transthyretin variant; Fluorimetric assay; Kinetic study; Sulfate (Bonifácio, M.J. (1316) 35)

Amyloidosis
Light chain; Light chain deposition disease; Unfolding (Bellotti, V. (1317) 161)

Anaerobic respiration
Dimethylsulfoxide; Oxidoreductase; Molybdenum oxotransferase; Primary structure (Shaw, A.L. (1276) 176)

Analogue
Structure–function relationship; Neurotoxin; pH titration; Helix capping; (Scorpion) (Dyke, T.R. (1292) 31)

Analytical centrifugation
Photosynthesis; Purple bacterium; Light harvesting complex; Electron microscopy; (*Rv. gelatinosus*) (Jirsakova, V. (1277) 150)

Analytical ultracentrifugation
SV40; Recombinant baculovirus; Virus-like particle (VLP); Reconstitution, in vitro (Kosukegawa, A. (1290) 37)

Androgen release
Leydig cell; Thyroid hormone; Protein induction; (Goat); (Testis) (Jana, N.R. (1292) 209)

Anemia
Hb H; Deletion; Mutation; mRNA ratio imbalance; Hb A_2; ζ-chain (Smetanina, N.S. (1316) 176)

Anesthetic-protein interaction
Halothane; Supersecondary structure; Fluorescence; Photoaffinity labeling (Johansson, J.S. (1290) 63)

Angiogenesis
Thymosin β_4; Actin-binding protein; P19 cell; Development (Gómez-Márquez, J. (1306) 187)

Angiogenesis inhibitor
Heparin-steroid conjugate; Vascular endothelial cell; Angiostatic steroid (Derbyshire, E.J. (1310) 86)

Angiostatic steroid
Angiogenesis inhibitor; Heparin-steroid conjugate; Vascular endothelial cell (Derbyshire, E.J. (1310) 86)

Angiotensin-converting enzyme
Epidermal inhibitory pentapeptide; Proteinase; (Porcine serum) (Bramucci, M. (1290) 184)

Angiotensin II
c-*fos*; Hepatocyte; Proto-oncogene (González-Espinosa, C. (1310) 217)

Protein phosphorylation; Rat hepatocyte; Noradrenaline; Vasopressin; Glucagon (Aggarwal, S.R. (1310) 284)

TIMP-I; Endothelial cell; Protein kinase C; (Rat heart) (Chua, C.C. (1311) 175)

Angiotensin II receptor
Granulosa; Theca; (Rabbit ovary) (Féral, C. (1284) 221)

Anhydrobiosis
Phospholipase A_2; Arbutin; Liposome; Dehydration; Free fatty acid (Oliver, A.E. (1302) 69)

1,5-Anhydroglucitol
Fructose; Mannose; Sugar transport; Renal tubule (Yamanouchi, T. (1291) 89)

Anilinonaphthalene sulfate
Adenylate kinase; Equilibrium intermediate; Sequential unfolding; Size-exclusion chromatography; Second derivative spectrum (Zhang, Y.-L. (1295) 239)

1-Anilino-8-napthalene sulfonate
Xylose reductase; NADPH specific; Acrylamide quenching; Tryptophan; Inactivation kinetics; (*N. crassa*) (Rawat, U.B. (1293) 222)

1-Anilo-8-naphthalene
Chaotropic denaturant; Cardiotoxin III; Protein folding; (*Naja naja atra*) (Kumar, T.K.S. (1294) 103)

Anion exchange
Red cell; Activation energy (Baker, G.F. (1285) 192)

Anionic amino acid
Brain; Vaccinia; Serine (Tamarappoo, B.K. (1279) 131)

Anionic phospholipid
Erythrocyte membrane; Flip-flop; Anion transport; Band 3; Flippase (Serra, M.V. (1282) 263)

Phosphatidylethanol; NMR, ^{13}C-; Liposome; Packing constraint; Electrostatic force; Chaotropic anion; Phospholipid hydration (Victorov, A.V. (1283) 151)

Anionic site
Acetylcholinesterase; Electrostatic interaction; Salt effect; Molecular recognition; Catalytic mechanism; Allosteric modulation (Tõugu, V. (1298) 12)

Anion transport
Erythrocyte membrane; Essential arginine; (Human) (Böhm, R. (1280) 238)

Band 3; Membrane protein; Reconstitution; Triton X-100 (Boulter, J.M. (1280) 265)

Erythrocyte membrane; Anionic phospholipid; Flip-flop; Band 3; Flippase (Serra, M.V. (1282) 263)

Annealing
Actin; Tropomyosin; Fluorescence (Teubner, A. (1297) 214)

Annexin
Protein kinase C; Calcium and phospholipid binding protein (Dubois, T. (1313) 290)

Annexin I
Neutrophil organelle; Membrane binding (Sjölin, C. (1281) 227)

Mutagenesis; Liposome aggregation; Self-association; Trypsin proteolysis (Porte, F. (1293) 177)

Annexin II
p36; Promoter; Alternative splicing (Fey, M.F. (1306) 160)

Phosphorylation; Cell proliferation; B cell lymphoma; DNA replication (Chiang, Y. (1313) 295)

Annexin V
Calcium; Phospholipid monolayer; Phospholipid headgroup spacing (Mukhopadhyay, S. (1279) 58)

Annexin VI
Membrane binding; Calcium; Conformational change; Crystallography; Molecular replacement; (Bovine liver) (Kawasaki, H. (1313) 277)

Anomer
Agonist; Antagonist; Antigen; Glycopeptide; Phosphopeptide; Secondary structure; Serum stability; Sulfopeptide (Otvos Jr., L. (1313) 11)

Anoxia
βTC3; Insulin secretion; Hypoxia; Bioartificial pancreas (Papas, K.K. (1291) 163)

Antagonist
Signal transduction; Mathematical modeling; Membrane receptor; Agonist; Calcium mobilization (Stickle, D. (1310) 242)

Agonist; Anomer; Antigen; Glycopeptide; Phosphopeptide; Secondary structure; Serum stability; Sulfopeptide (Otvos Jr., L. (1313) 11)

Antarctic fish
Trypsin; Cold adaptation; Three-dimensional structure; (*P. magellanica*) (Genicot, S. (1298) 45)

Antenna organization
Antenna size; Fluorescence measurement (Hecks, B. (1274) 21)

Antenna size
Antenna organization; Fluorescence measurement (Hecks, B. (1274) 21)

Photosystem II; Heterogeneity; Plastoquinone pool (Hemelrijk, P.W. (1274) 31)

Anterior pituitary cell
Lutropin; Gonadotropin-releasing hormone; Testosterone; (Rat) (Starzec, A.B. (1310) 348)

Anthranilate synthase
p-Aminobenzoate; Aminodeoxychorismate synthase; (*E. coli*) (Rayl, E.A. (1295) 81)

Antibacterial agent
Fluoroshikimate; Shikimate transport (*shiA*) (Jude, D.A. (1279) 125)

Brush border membrane vesicle; β-Lactam; Penicillin-G; Oral administration; pH gradient; (Antibiotic uptake) (Poschet, J.F. (1278) 233)

Antibody
Liposome; Immunoliposome; Long-circulating liposome; Antimyosin; Myocardial infarction; Drug targeting (Torchilin, V.P. (1279) 75)

Liposome; Complement; Hemoglobin; Natural anti-phospholipid antibody (Szebeni, J. (1285) 127)

Lyme disease; Plasmid; Spirochete; (*B. burgdorferi*) (Feng, S. (1307) 270)

Nucleoside diphosphate kinase; Amphibian; Muscarinic K^+ channel; Calcium channel; Atrial myocyte (Yi, X.B. (1310) 343)

Calcium-binding protein; α-Parvalbumin; EF hand; Mutagenesis; (Human) (Rhyner, J.A. (1313) 179)

Signal transduction; EGF receptor; Ionizing radiation (Balaban, N. (1314) 147)

Antigen
Liposomal antigen; Biodistribution; Encapsulation; Surface linkage (Thérien, H.-M. (1280) 91)

Agonist; Anomer; Antagonist; Glycopeptide; Phosphopeptide; Secondary structure; Serum stability; Sulfopeptide (Otvos Jr., L. (1313) 11)

Anti-gene strategy
Peptide nucleic acid; Interleukin-2 receptor; Triple-helix; Strand invasion; Transcription regulation (Praseuth, D. (1309) 226)

Antigen presentation
Ganglioside; Monocyte; Immunosuppression (Heitger, A. (1303) 161)

Anti-HIV peptide
T22; Surface plasmon resonance; gp120; CD4; Tachyplesin (Tamamura, H. (1298) 37)

Antimycin A
Mitochondrial disease; Ubiquinol cytochrome *c* reductase; Cytochrome *b*; Human pathology; Myxothiazol (Bouzidi, M.F. (1317) 199)

Antimyosin
Liposome; Immunoliposome; Long-circulating liposome; Antibody; Myocardial infarction; Drug targeting (Torchilin, V.P. (1279) 75)

Antineoplastic agent
Ether lipid; Platelet activating factor; X-ray diffraction; Small-angle X-ray diffraction; DSC (Xie, X. (1283) 111)

Antioxidant
Caffeine; Free radical; Singlet oxygen; Lipid peroxidation; (Rat liver microsome) (Devasagayam, T.P.A. (1282) 63)

Soybean root; Iron supplementation; Oxygen radical generation (Caro, A. (1291) 245)

Isotorachrysone; Lipid peroxidation; Peroxyl radical; Superoxide anion; Hydroxyl radical; LDL; Free radical (Hsiao, G. (1298) 119)

Erythrocyte; β-Carotene; Phospholipid; Lipid peroxide; (Mouse) (Nakagawa, K. (1299) 110)

Unsaturated fatty acid; Cytokine; Endothelial cell; Antioxidant enzyme; Conjugated diene; (Human) (Crosby, A.J. (1303) 187)

Lipid peroxidation; α-Tocopherol; Ascorbic acid; Carotenoid; (Chick embryo) (Surai, P.F. (1304) 1)

Lipid peroxidation; Iron chelation; Free-radical scavenger; Polyphenol, green tea; EPR; Synaptosome; (Rat) (Guo, Q. (1304) 210)

Biliverdin-IXα reductase; Biliverdin-IXβ reductase; Heme oxygenase (Komuro, A. (1309) 89)

Antitumor drug; Apoptosis; Leukemia; (Human) (Kuo, M.-L. (1317) 95)

Fibronectin; Fibronectin fragment; Cartilage; Chondrocyte; Repair; Chondrolysis (Homandberg, G.A. (1317) 134)

Fibronectin; Fibronectin fragment; Cartilage; Chondrocyte; Repair; Chondrolysis (Homandberg, G.A. (1317) 143)

Antioxidant enzyme
Unsaturated fatty acid; Cytokine; Endothelial cell; Antioxidant; Conjugated diene; (Human) (Crosby, A.J. (1303) 187)

mRNA expression; Differential expression; PCR; Development; (Guinea pig) (Yuan, H.T. (1305) 163)

Development; Reactive oxygen radical; Glutathione; DNA ploidy (Sanz, N. (1315) 123)

Antioxidant responsive element
Glutathione *S*-transferase; Chloramphenicol acetyltransferase; ELISA (Wang, B. (1307) 104)

Antiproliferation
Deoxyhypusine synthase; Eukaryotic translation initiation factor 5A; Cell growth; Tumorigenic cell line (Shi, X.-P. (1310) 119)

Antisense oligonucleotide
Cationic amino acid transport; Amino acid transport; Peripheral blood mononuclear cell; H13 gene; 4F2 gene; Oligonucleotide; (Human) (Chen, S. (1284) 1)

Nuclear microinjection; G-protein heterotrimer; Receptor–G protein interaction (Kalkbrenner, F. (1314) 125)

Cytokine; Tumor necrosis factor; Lymphotoxin; Cell-free extract (Lefebvre d'Hellencourt, C. (1317) 168)

Antisense therapy
Liposome; Cationic liposome; Oligonucleotide; Biodistribution (Litzinger, D.C. (1281) 139)

Antitumor activity
PKC; 26-Succinylbryostatin 1; PKC translocation (Bignami, G.S. (1312) 197)

Antitumor drug
Diarylsulfonylurea; Sulfonylurea; NADH oxidase; Plasma membrane; HeLa cell (Morré, D.J. (1280) 197)

Antioxidant; Apoptosis; Leukemia; (Human) (Kuo, M.-L. (1317) 95)

***aox* A-gene**
L-Amino acid oxidase; Cyanobacterium; L-Arginine metabolism; (*Synechococcus* PCC 6301/7942) (Bockholt, R. (1307) 111)

AP-1
Phosphocitrate; Metalloproteinase; Calcium crystal; Inhibition (Cheung, H.S. (1315) 105)

APC
Autoantigen; Cytokine; Monocyte; Th1; Autoimmune disease (López-Moratalla, N. (1317) 183)

***apo E* gene**
Hyperlipoproteinemia; Apolipoprotein E2; Restriction fragment length polymorphism; Polymorphism; Xanthomatosis (Moriyama, K. (1301) 185)

Apolipoprotein
Lipoprotein; Yolk sac; Fatty acid; (Rat fetus) (Plonné, D. (1299) 54)

Hepatocyte gene regulation; mRNA quantitation; Cholesterol; Lipoprotein; Ester (Rea, T.J. (1299) 67)

Cholesteryl ester transfer protein; Lipid transfer protein; Amphipathic helix; Cholesteryl sulfate; Recessive X-linked ichthyosis; Sperm acrosome; Lipopolysaccharide (Connolly, D.T. (1304) 145)

Apolipoprotein A-I
HDL; Pre-β HDL; Reverse cholesterol transport (Barrans, A. (1300) 73)

Cholesterol efflux; Apolipoprotein E; HDL subclass; Tangier disease (Von Eckardstein, A. (1301) 255)

HDL remodeling; Apolipoprotein structure; Cholesteryl ester transfer protein; Lecithin-cholesterol acyltransferase (Calabresi, L. (1304) 32)

Apolipoprotein A-IV
Cholesteryl ester transfer protein; Pyrene (Main, L.A. (1300) 17)

Apolipoprotein B
Chylomicron; Catabolism; Transport of fat; Assembly; Core expansion; Space of Disse; (Liver, Intestine, Plasma) (Hussain, M.M. (1300) 151)

Apolipoprotein E
Lipoprotein lipase; VLDL; LDL; Chylomicron (Carrero, P. (1299) 198)

Cholesterol efflux; Apolipoprotein A-I; HDL subclass; Tangier disease (Von Eckardstein, A. (1301) 255)

Lipoprotein; Lipolysis; Lipoprotein lipase; Transfer protein (Murdoch, S.J. (1303) 222)

Apolipoprotein E2
Hyperlipoproteinemia; *apo E* gene; Restriction fragment length polymorphism; Polymorphism; Xanthomatosis (Moriyama, K. (1301) 185)

Apolipoprotein J
Sulfated glycoprotein-2; Testosterone-repressed prostate message-2; Clusterin expression; Apoptosis; Serum deprivation-induced cell death (Fratelli, M. (1311) 71)

Apolipoprotein structure
HDL remodeling; Apolipoprotein A-I; Cholesteryl ester transfer protein; Lecithin-cholesterol acyltransferase (Calabresi, L. (1304) 32)

Apoptosis
Icosanoid; Leukotriene; HETE; Colon cancer; Cell proliferation; Cell cycle (Bortuzzo, C. (1300) 240)

Saturated fatty acid containing phospholipid; Membrane lipid composition (Singh, J.K. (1304) 171)

Apolipoprotein J; Sulfated glycoprotein-2; Testosterone-repressed prostate message-2; Clusterin expression; Serum deprivation-induced cell death (Fratelli, M. (1311) 71)

S100β; Nitric oxide; Programmed cell death; Astrocyte; Cytotoxicity (Hu, J. (1313) 239)

Insulin; IGF-1; Serum starvation (Yang, B.-C. (1314) 83)

Liver ischaemic atrophy; Hydronephrosis; Tumor suppressor gene p53 (Cummings, M.C. (1315) 100)

Antioxidant; Antitumor drug; Leukemia; (Human) (Kuo, M.-L. (1317) 95)

Apyrase
Active site; Cholinergic; 5′-*p*-Fluorosulfonylbenzoyladenosine; (*Torpedo*) (Martí, E. (1282) 17)

ATP diphosphohydrolase; ADPase; Deglycosylation; Subcellular localization; Human placenta (Christoforidis, S. (1282) 257)

Adenosinetriphosphatase (Komoszyński, M. (1310) 233)

AQP-1
Water channel; Untranslated region; 3′-UTR sequence; Aquaporin; Retinal pigment epithelium; (Human RPE) (Ruiz, A. (1282) 174)

Aquaporin
Water channel; Untranslated region; 3′-UTR sequence; *AQP-1*; Retinal pigment epithelium; (Human RPE) (Ruiz, A. (1282) 174)

Aqueous humor
Eye lens; Digital image analysis; Liposome; Lipid peroxidation; Cataract; Retinal disease (Babizhayev, M.A. (1315) 87)

Aqueous two-phase system
Polymer; Phase separation; Partitioning of protein; Temperature-induced phase separation (Johansson, H.-O. (1290) 289)

D-Arabinono-1,4-lactone oxidase
D-Arabinose dehydrogenase; Erythroascorbic acid; (*C. albicans*) (Kim, S.-T. (1297) 1)

D-Arabinose dehydrogenase
D-Arabinono-1,4-lactone oxidase; Erythroascorbic acid; (*C. albicans*) (Kim, S.-T. (1297) 1)

Arachidonic acid
Kinase C; Diacylglycerol; Calcium; Lipid; Vesicle (Schachter, J.B. (1291) 167)

Phospholipid; Human disease (Chilton, F.H. (1299) 1)

Prostaglandin H synthase; Oxidation; Cosubstrate; Leuco-dichlorofluorescein (Larsen, L.N. (1299) 47)

Prostaglandin; Cytochrome *P*-450; Lipoxygenase; Cyclooxygenase (Rosolowsky, M. (1299) 267)

Phospholipase A_1; Phospholipase A_2; Lysophospholipase; Phosphatidylcholine metabolism (Pete, M.J. (1299) 325)

U937 cell; Intracellular calcium regulation; Phospholipase A_2; Cytosol; Calcium influx factor (Rzigalinski, B.A. (1299) 342)

Lipoxygenase; 12-Lipoxygenase; Suicide inactivation; Hydroperoxide; Linoleic acid (Kishimoto, K. (1300) 56)

CoA-independent transacylase; Neutrophil; Lysophospholipid; Platelet activating factor (Nixon, A.B. (1300) 187)

12-Hydroxyeicosatetraenoic acid; Leukotriene; Albumin; Leukocyte; Platelet (Dadaian, M. (1303) 154)

Tumor necrosis factor; Phospholipase A_2; Airway epithelial cell (Wu, T. (1310) 175)

Steroidogenesis; Adrenocorticotropin; Proteinase (Mele, P.G. (1310) 260)

Leukotriene B_4; 5-Hydroxyeicosatetraenoic acid; Aggregation; Polymorphonuclear leukocyte; Diabetes (Nakagawa, Y. (1315) 145)

Arachidonic acid metabolism
Polymorphonuclear leukocyte; Leukocyte; Lipoxygenase; (Canine) (Rosolowsky, M. (1300) 143)

15-Hydroperoxy-5,8,11,13,15-icosapentaenoic acid; Icosapentaenoic acid; Lipid hydroperoxide; Platelet (Tsunomori, M. (1300) 171)

Cell proliferation; Indomethacin; Mammary carcinoma (Tripathi, S.C. (1316) 5)

Arachidonic acid turnover
Chondrocyte; Estrogen; Fluidity; Membrane; Matrix vesicle; Estradiol 17β (Schwartz, Z. (1282) 1)

Arbutin
Phospholipase A_2; Liposome; Dehydration; Anhydrobiosis; Free fatty acid (Oliver, A.E. (1302) 69)

Archaea
Extremophile (Schäfer, G. (1275) 16)

Hyperthermophile; Electron transport; Terminal oxidase; ATPase; Energy conservation; (*Sulfolobus*) (Schäfer, G. (1277) 163)

NAD glutamate dehydrogenase; Inhibition; Activation; (*Halobacterium halobium*) (Bonete, M.J. (1289) 14)

Halobacterium; Plasmid vector pMDS30; Class I subtilase; Signal sequence; (*Hf. volcanii*) (Kamekura, M. (1294) 159)

Histone-like protein; Histone; Histone fold; HMf; (*Thermococcus*) (Ronimus, R.S. (1307) 1)

Archaeal elongation factor 1β
Nucleotide exchange factor; Heat stability; Primary structure; (*S. solfataricus*) (Raimo, G. (1293) 106)

Archaebacterium
Halophile; Halorhodopsin; Fatty acid (Corcelli, A. (1281) 173)

Liposome; Membrane; Phytanyl group; FAB-MS; NMR, ^{1}H- (Yamauchi, K. (1283) 163)

α-Glucosidase; Extreme thermophile; Thermophile; Thermostabilization; Immobilization; (*Thermococcus*) (Piller, K. (1292) 197)

Nucleotide sequence; *Glt* x; Glutamyl-tRNA synthetase; Aminoacyl-tRNA synthetase (Moore, J.A. (1305) 113)

Arginine
Lysine:K^+ symport; Cotransport; Tobacco hornworm (Liu, Z. (1282) 32)

Nitric oxide; Membrane transport; Lipopolysaccharide; Macrophage (Shibazaki, T. (1311) 150)

L-Arginine metabolism
L-Amino acid oxidase; *aox*A-gene; Cyanobacterium; (*Synechococcus* PCC 6301/7942) (Bockholt, R. (1307) 111)

Argininosuccinate lyase
δ-Crystallin; Enzyme activity; Enzyme-crystallin; (Duck embryo); (Eye); (Lens) (Piatigorsky, J. (1295) 158)

Arkyrin
Polyethyleneglycol 8000; Hepatic system A; Fodrin; (Madine Darby canine kidney cell) (Handlogten, M.E. (1282) 107)

ARNT protein
Aryl hydrocarbon receptor; Dioxin; Retinoic acid; Keratin; Psoriasis (Wanner, R. (1317) 105)

Aromatic acid
Decarboxylase; Active-site peptide (Santha, R. (1293) 191)

Aromatic amino acid aminotransferase
tyrB gene; Aspartate aminotransferase; (*S. typhimurium*) (Nakai, Y. (1308) 189)

Aromaticity
Thymidylate synthase; Inhibition; 2,4-dithio-dUMP; 2,4-dithio-5-fluoro-dUMP (Dzik, J.M. (1293) 1)

Arrhythmia
Phosphatidylglycerol; Lysophosphatidylglycerol; Acyltransferase; (Heart) (Cheng, P. (1302) 61)

Arterial smooth muscle cell
Calcium-activated potassium ion channel; Potassium ion channel; Pulmonary circulation; Protein kinase (Hartley, S.A. (1283) 192)

Arteriosclerosis
Cholesterol; Cholesteryl ester; Reverse cholesterol transport; Peroxidation; Lipoprotein; α-Tocopherol (Stein, O. (1299) 216)

Arthritis
Matrix metalloproteinase; TIMP; Collagenase; T cell (Cawston, T.E. (1314) 226)

Articular chondrocytes
Type II transglutaminase; Collagen synthesis; Differentiation; Cell growth; Adhesion (Borge, L. (1312) 117)

Aryl hydrocarbon receptor
Dioxin; Retinoic acid; Keratin; ARNT protein; Psoriasis (Wanner, R. (1317) 105)

2-Arylpropionic ester
Lipase; Comparative molecular field analysis; Substrate specificity; (*C. rugosa*) (Botta, M. (1296) 121)

Ascites tumor cell
Glycolysis; Synthetic organic buffer; Substrate-free incubation (Grivell, A.R. (1291) 83)

Ascorbate
Ferritin; LDL; Lipoprotein oxidation; Atherosclerosis; (Iron) (Dai, L. (1304) 223)

Ascorbate peroxidase
Purification; Monoclonal antibody; Peptide sequence; (*Euglena*) (Ishikawa, T. (1290) 69)

Ascorbic acid
Antioxidant; Lipid peroxidation; α-Tocopherol; Carotenoid; (Chick embryo) (Surai, P.F. (1304) 1)

Asialofetuin
Liposome; Amphiphilic compound; Receptor mediation; Gene transfer; Hepatocyte; (Rat) (Hara, T. (1278) 51)

Aspartate
Transient outward current; Chloride current; Methanesulfonate; Caffeine; Chloride ion substitute; (Rat ventricular myocytes) (Lefevre, T. (1273) 31)

Aspartate aminotransferase
Phosphoserine aminotransferase; Purification; Cloning; Sequencing; Alkaliphile; (*B. circulans*) (Battchikova, N. (1295) 187)

tyrB gene; Aromatic amino acid aminotransferase; (*S. typhimurium*) (Nakai, Y. (1308) 189)

D-Aspartate induction
D-Aspartate oxidase; Flavoprotein; Malonate inhibition; Yeast (Yamada, R.-h. (1294) 153)

D-Aspartate oxidase
D-Aspartate induction; Flavoprotein; Malonate inhibition; Yeast (Yamada, R.-h. (1294) 153)

Aspartic proteinase
Cardosin; Proteolytic specificity; α_{s1}-Casein; Chymosin; (*Cynara cardunculus* L.) (Ramalho-Santos, M. (1297) 83)

Aspartyl protease
Protein expression; Triacylglycerol; (Baculovirus) (Lowe, M.E. (1302) 177)

Aspirin
Chaperone; α-Crystallin; Glycation; Malate dehydrogenase (Heath, M.M. (1315) 176)

Assembly
Cysteine; psbO; Site-directed mutagenesis; Size-exclusion chromatography; Protein, 33 kDa (Betts, S.D. (1274) 135)

Chylomicron; Catabolism; Transport of fat; Apolipoprotein B; Core expansion; Space of Disse; (Liver, Intestine, Plasma) (Hussain, M.M. (1300) 151)

Assimilatory sulfite reduction
Cysteine biosynthesis; Hydrogen-sulfide:ferredoxin oxidoreductase; cDNA; Sequence homology; Chloroplast isoform; (*A. thaliana*) (Brühl, A. (1295) 119)

Association
Focal adhesion kinase; Localization; Phosphoinositide 3-kinase; Glutathione *S*-transferase fusion protein (Bachelot, C. (1311) 45)

Association constant
Voltage-sensitive styryl dye; Styryl dye; Membrane fragment; Rubisco; ATPase, Na^+/K^+-; Fluorescence (Frank, J. (1280) 51)

Steroid hormone-albumin binding; Fatty acid effect; Albumin; Bovine serum albumin; Serum albumin; (Human) (Watanabe, S. (1289) 385)

Ovoinhibitor; Domain I; Trypsin inhibitor; Amino acid composition; Molecular weight; (Chicken) (Galzie, Z. (1293) 113)

Asthma
Catalytic antibody; Autoantibody; Light chain; Vasoactive intestinal polypeptide; Phage display (Tyutyulkova, S. (1316) 217)

Astrocyte
Mastoparan; Phospholipase C; Phospholipase A_2; G protein; Prostaglandin E_2 (Nakahata, N. (1310) 60)

Prostaglandin D synthetase; Radioimmunoassay (Giacomelli, S. (1310) 269)

S100β; Nitric oxide; Apoptosis; Programmed cell death; Cytotoxicity (Hu, J. (1313) 239)

Astrocytoma
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ATPase, H^+-
ATPase, F_1-; Subunit reconstitution; Glutathione *S*-transferase; Overexpression; Expression plasmid; (*E. coli*) (Shin, Y. (1273) 62)

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Bafilomycin; ATPase, H^+-; Osteoclast; Proton channel (Mattsson, J.P. (1280) 98)

ATP-binding motif
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ATP, caged
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ATP-citrate lyase gene
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H^+-transporting ATP synthase; Membrane; Binding change mechanism; Subunit rotation; Physiological relevance (Zhou, Y. (1275) 96)

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H^+-transporting ATP synthase
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Atrial myocyte
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Autoimmune disease
Autoantigen; Cytokine; Monocyte; Th1; APC (López-Moratalla, N. (1317) 183)

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Calmodulin-dependent protein kinase II; Autoactivation; Thr-286/Thr-287 (Ishida, A. (1311) 211)

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3′-Azido-2′,3′-dideoxythymidine
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Bicarbonate ion gradient
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Bile salt
Bile acid; Biosynthesis; Cholesterol; Cell culture; Metabolism; Hepatocyte culture; Hydroxycholesterol (Sauter, G. (1300) 25)

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T lymphocyte; Cytotoxicity; Major histocompatibility complex (Haga, Y. (1317) 65)

Bilirubin oxidase
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Biliverdin-IXα reductase
Biliverdin-IXβ reductase; Antioxidant; Heme oxygenase (Komuro, A. (1309) 89)

Biliverdin-IXβ reductase
Biliverdin-IXα reductase; Antioxidant; Heme oxygenase (Komuro, A. (1309) 89)

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Lipoprotein; Receptor; HepG2 cell; Selective uptake; Lipid; Protein kinase C (Brissette, L. (1301) 133)

Binding change mechanism
H^+-transporting ATP synthase; Membrane; ATP hydrolysis; Subunit rotation; Physiological relevance (Zhou, Y. (1275) 96)

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Binding protein, Ca^{2+}/membrane
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Electrorotation; Yeast; Toxicity; Membrane conductivity (Zhou, X.-F. (1281) 60)

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Liposome; Blood protein; Protein; Reticuloendothelial system; Opsonin; Phagocytosis (Oja, C.D. (1281) 31)

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Biological activity
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Bioluminescence
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Biosynthesis
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Bile acid; Bile salt; Cholesterol; Cell culture; Metabolism; Hepatocyte culture; Hydroxycholesterol (Sauter, G. (1300) 25)

Biosynthetic ornithine decarboxylase
Phosphorylation; Nucleotide activation; *Escherichia coli*; GTP binding (Anagnostopoulos, C.G. (1297) 228)

Biotin
Liposome; Streptavidin; Europium-chelate; Lanthanide; Time-resolved fluorometry; Detergent; Phospholipase A_2 (Orellana, A. (1284) 29)

Bis(molybdopterin guanine dinucleotide)molybdenum
Dimethyl sulfoxide reductase; Molybdenum cofactor; (*R. sphaeroides*) (Hilton, J.C. (1294) 111)

Bisnorlipoic acid
Lipoic acid; Pyruvate dehydrogenase; Pyruvate dehydrogenase complex; Incorporation, in vivo; (*E. coli*) (Loeffelhardt, S. (1297) 90)

2,3-Bisphosphoglycerate
5′-Nucleotidase; Nucleoside phosphotransferase; ADP (Pesi, R. (1294) 191)

Bleomycin
Surfactant; Neutral lipid (Swendsen, C.L. (1301) 90)

Collagen; Fibrosis; Collagen cross-linking; Hydroxylysine (Gerriets, J.E. (1316) 121)

BLM-Ni(III) complex
Z-form DNA; Guanine binding; Ni(III)-ESR (Guan, L.L. (1308) 169)

Blocker
Chloride channel; Mutagenesis; Muscle; Baculovirus (Astill, D.St.J. (1280) 178)

Blood
Rouleaux formation; Dielectric constant; Conductivity; Erythrocyte; (Human) (Irimajiri, A. (1290) 207)

Blood-brain barrier
Glucose transport; Endothelium; GLUT1 (Gaposchkin, C.G. (1285) 255)

Blood protein
Liposome; Protein; Reticuloendothelial system; Opsonin; Phagocytosis; Biodistribution (Oja, C.D. (1281) 31)

Blue copper protein
Phytocyanin; Stellacyanin; Redox protein; (*C. sativus*) (Schininà, M.E. (1297) 28)

Blue-green fluorescence
Fluorescence; Decay-associated spectrum; Ferulic acid; (Leaf epidermis) (Morales, F. (1273) 251)

Bolaform archaeal lipid
Valinomycin; Ultrathin lipid membrane; Conduction channel; Permeation (Gliozzi, A. (1283) 1)

Bombesin
Endometrium; Gastrin-releasing peptide; Pregnancy; Constitutive secretion; (Sheep) (Giraud, A. (1296) 189)

Bond lifetime
Unbinding force; Intermolecular force; Surface denaturation; Actin–actinin bond (Miyata, H. (1290) 83)

Bone
Vitamin D_3; Parathyroid hormone; Osteoblast; Interaction; Second messenger (Van Leeuwen, J.P.T.M. (1312) 55)

Bone marrow
Liposome; Distribution; Size; Membrane fluidity; Tumor (Nagayasu, A. (1278) 29)

Bone morphogenetic protein
Transforming growth factor-β superfamily; 60*A* gene; (*Drosophila*) (Du, W. (1307) 273)

Botulinum
Neurotoxin (Moriishi, K. (1307) 123)

Boundary lipid
Lipid activation; Inhibitor, lipophilic; Cooperativity index; ATPase, Na^+/K^+-; Lactose permease (Sandermann Jr., H. (1300) 219)

Major intrinsic protein; Intercellular junction; Junctional lipid; Cholesterol; Ethanolamine glycerophospholipid; Sphingomyelin; (Bovine ocular lens) (Baumann, C.G. (1303) 145)

Boundary potential
Potential sensitivity; RH dye; Membrane; Adsorption; ATPase, Na^+/K^+- (Malkov, D.Yu. (1278) 197)

Bovine brain
Phosphatidylinositol 4-kinase; Primary structure (Gehrmann, T. (1311) 53)

Bovine platelet
Calcium ion influx; Trichosporin-B; Adrenal chromaffin cell; Glioma C_6 cell (Tachikawa, E. (1282) 140)

Bovine serum albumin
Steroid hormone-albumin binding; Fatty acid effect; Albumin; Serum albumin; Association constant; (Human) (Watanabe, S. (1289) 385)

Bradykinin
Calcium; Alzheimer's disease; Fibroblast; Mitochondrion (Gibson, G.E. (1316) 71)

Brain
Anionic amino acid; Vaccinia; Serine (Tamarappoo, B.K. (1279) 131)

$n-3$ Polyunsaturated fatty acid; Phospholipid; Water maze; Learning ability; (Rat) (Jensen, M.M. (1300) 203)

Dipeptide repeat; Nucleotide sequence; Procyclin; Muscle (Geertman, R. (1306) 147)

Urea transporter; Thiourea; pCMBS; Phloretin; (*Xenopus* oocyte) (Couriaud, C. (1309) 197)

Aluminum; Ferritin (San-Marina, S. (1310) 277)

Muscarinic receptor; Gastric mucosa; In situ hybridization; Parietal cell (Helander, K.G. (1312) 158)

Calcium; Aluminum; Alzheimer's disease (Julka, D. (1315) 47)

Brain cell
Amino acid efflux; Cell volume (Law, R.O. (1314) 34)

Amino acid; Calcium ion; Cell volume (Law, R.O. (1314) 43)

Branched-chain α-ketoacid dehydrogenase
Dihydrolipoyl transacylase; E2 subunit; B1 repeat (Costeas, P.A. (1305) 25)

Breakdown voltage
Asymmetric uptake; Electropermeabilization; Medium conductivity; Membrane resealing; Propidium iodide (Djuzenova, C.S. (1284) 143)

B1 repeat
Branched-chain α-ketoacid dehydrogenase; Dihydrolipoyl transacylase; E2 subunit (Costeas, P.A. (1305) 25)

***N*-Bromoacetylethanolamine phosphate**
Glucose-6-phosphatase; Microsome; Inorganic pyrophosphatase; PP_i:glucose phosphotransferase; (Rat liver) (Foster, J.D. (1297) 244)

Bromodomain
Sequencing; Transcription factor (Nielsen, M.S. (1306) 14)

Brush border membrane
Nucleoside transport; 6-Mercaptopurine riboside; Sodium ion dependence; Small intestine; (Rat) (Iseki, K. (1278) 105)

Sodium/D-glucose cotransport; Alkylglucoside; Inhibitor; Glucose-binding pocket; (Kidney) (Kipp, H. (1282) 124)

Carnitine; High affinity binding; Sodium ion dependence; (Human placenta) (Roque, A.S. (1282) 274)

Ceftibuten transport; Oligopeptide; Solubilization; Reconstitution; Liposome; Renal cortex (Naasani, I. (1283) 185)

Renal secretion; Organic cation; Tetraethylammonium; Membrane fluidity; Cholesterol (Nabekura, T. (1283) 232)

Glucoamylase; α-Glucosidase; Isomaltase; Maltase; Sucrase; (Intestine); (*R. japonica*) (Takesue, Y. (1296) 152)

Brush border membrane vesicle
β-Lactam; Penicillin-G; Oral administration; pH gradient; (Antibiotic uptake) (Poschet, J.F. (1278) 233)

Proton; D-Glucose transport; SGLT2; (Rat kidney) (Vayro, S. (1279) 111)

Glutamate; Transport; Sodium ion cotransport; Kinetics; (Rat intestine) (Prezioso, G. (1279) 144)

Sulfate transport; Transplacental transfer; Bicarbonate gradient (Grassl, S.M. (1282) 115)

BTF3
Transcription factor; EGD1; BTT1 (Potashkin, J. (1308) 182)

BTT1
BTF3; Transcription factor; EGD1 (Potashkin, J. (1308) 182)

Bumetanide
Occlusion; Membrane vesicle; n-Octyl glucoside; Cytochalasin B; $Na^+/K^+/2Cl^-$ cotransport (Krarup, T. (1284) 97)

Transport; Organic anion; Bile acid; (Rat liver) (Horz, J.A. (1300) 114)

Bursting activity
Chloride channel; Ciliary membrane; Voltage-dependence; IAA-94; (*Tetrahymena*) (Fujiwara-Hirashima, C. (1280) 207)

***tert*-Butyl hydroperoxide**
Oxidative stress; Phospholipid; *cis*-Parinaric acid; Fluorescence probe; HPLC (Ritov, V.B. (1283) 127)

GSH; Glutathione-protein mixed disulfide; Diamide; Hemoglobin; Oxidative stress; (Rat) (Di Simplicio, P. (1289) 252)

Butyrophilin
Milk fat globule; Immunoglobulin superfamily; cDNA sequence; (Human) (Taylor, M.R. (1306) 1)

Butyrylcholinesterase
Acetylcholinesterase; Human meningioma; Amphiphilic properties (Sáez-Valero, J. (1317) 210)

C

algC
Phosphomannomutase; Phosphoglucomutase; *rfbK*; Polysaccharide; (*Prochlorothrix*) (Dwivedi, K. (1290) 210)

Caco-2
Glycoalkaloid; Erythrocyte; Mitochondrion; Cholesterol; Permeabilization; Membrane disruption (Keukens, E.A.J. (1279) 243)

Guanylyl cyclase C; Gene expression; Intestine (Mann, E.A. (1305) 7)

Caco-2 cell
Mannose 6-phosphate receptor; Insulin-like growth factor; Insulin-like growth factor receptor (Dahms, N.M. (1279) 84)

Cadmium
Zinc binding; Zinc binding site; Ionophore A23187; Brush border membrane (rat kidney cortex) (Prasad, R. (1284) 69)

Caffeine
Transient outward current; Chloride current; Methanesulfonate; Aspartate; Chloride ion substitute; (Rat ventricular myocytes) (Lefevre, T. (1273) 31)

ATPase, Ca^{2+}-; Calcium ion uptake; Calcium store; Secretion; SERCA; (*Paramecium*) (Länge, S. (1278) 191)

Free radical; Singlet oxygen; Lipid peroxidation; Antioxidant; (Rat liver microsome) (Devasagayam, T.P.A. (1282) 63)

Ryanodine receptor; Sarcoplasmic reticulum; Calcium channel; Skeletal muscle; Malignant hyperthermia (Herrmann-Frank, A. (1289) 31)

Calcitonin
Cytochalasin B; Colchicine; Monensin; Aluminum fluoride; Vesicular transport (Cremaschi, D. (1280) 27)

Calcium
Photosystem II; Binding site; Oxygen evolution (Booth, P.J. (1277) 127)

Annexin V; Phospholipid monolayer; Phospholipid headgroup spacing (Mukhopadhyay, S. (1279) 58)

Chondrosarcoma; Kupffer cell; Liposome; Opsonin; Reticuloendothelial system; Splenic macrophage; (Rat) (Moghimi, S.M. (1285) 56)

Kinase C; Diacylglycerol; Arachidonic acid; Lipid; Vesicle (Schachter, J.B. (1291) 167)

Troponin; Cross-linking; (Muscle) (Kobayashi, T. (1294) 25)

Plasmin; Fibrinogen; Monoclonal antibody (Odrljin, T.M. (1298) 69)

Calpain; cDNA cloning; Cysteine proteinase; Intracellular proteinase; Proteinase (Sorimachi, H. (1309) 37)

Inositol trisphosphate; Beta cell; Acetylcholine; Membrane potential (Gromada, J. (1310) 145)

Calmodulin; Protein kinase; Prolactin; Thyrotropin-releasing hormone; Calcium channel (Cui, Z.J. (1310) 343)

Platelet; Thrombin; ADP; Fluo-3; Calcium imaging; Cytoplasmic; (Human) (Tao, J. (1311) 164)

L-selectin; Sulfatide; Oxygen radical; Neutrophil; Adenosine; Tyrosine phosphorylation (Bengtsson, T. (1313) 119)

Intermediate filament; GFAP; Desmin; S100 protein; Epitope (Garbuglia, M. (1313) 268)

Annexin VI; Membrane binding; Conformational change; Crystallography; Molecular replacement; (Bovine liver) (Kawasaki, H. (1313) 277)

Aluminum; Brain; Alzheimer's disease (Julka, D. (1315) 47)

Alzheimer's disease; Fibroblast; Bradykinin; Mitochondrion (Gibson, G.E. (1316) 71)

Calcium-activated potassium ion channel
Potassium ion channel; Arterial smooth muscle cell; Pulmonary circulation; Protein kinase (Hartley, S.A. (1283) 192)

Calcium-activated proteinase
Terbium; Calpain; Calcium binding; (Human) (Raser, K.J. (1292) 9)

Calcium and phospholipid binding protein
Annexin; Protein kinase C (Dubois, T. (1313) 290)

Calcium antagonist
Verapamil; Nifedipine; Diltiazem; Ursodeoxycholic acid; LDL metabolism; (Hamster hepatocyte) (Bouscarel, B. (1301) 230)

Calcium binding
Terbium; Calpain; Calcium-activated proteinase; (Human) (Raser, K.J. (1292) 9)

Calcium-binding protein
Calcium metabolism; Crustacea; Mineralization; Organic matrix; (*O. cavimana*) (Luquet, G. (1293) 272)

Parvalbumin; Oncomodulin; EF hand; Magnesium binding; Calcium homeostasis; Calcium signaling (Pauls, T.L. (1306) 39)

Aging; 5′ Flanking sequence; Genomic DNA; Senescence marker protein-30 (SMP30); Transcription initiation site; (Mouse liver) (Fujita, T. (1308) 49)

S100A3; Hair; Cuticle (Kizawa, K. (1312) 94)

α-Parvalbumin; EF hand; Mutagenesis; Antibody; (Human) (Rhyner, J.A. (1313) 179)

Calretinin; Colon adenocarcinoma; Adenocarcinoma; HT-29; Differentiation (Cargnello, R. (1313) 201)

Calcium/calmodulin-dependent kinase
Protein kinase II; Protein kinase IV; Structure; Regulation; Calmodulin; Calcium ion (Soderling, T.R. (1297) 131)

Calcium channel
Static magnetic field; GH3 cell (Rosen, A.D. (1282) 149)

Ryanodine receptor; Sarcoplasmic reticulum; Caffeine; Skeletal muscle; Malignant hyperthermia (Herrmann-Frank, A. (1289) 31)

Calcium; Calmodulin; Protein kinase; Prolactin; Thyrotropin-releasing hormone (Cui, Z.J. (1310) 343)

Nucleoside diphosphate kinase; Amphibian; Antibody; Muscarinic K^+ channel; Atrial myocyte (Yi, X.B. (1310) 343)

Calcium crystal
Phosphocitrate; Metalloproteinase; AP-1; Inhibition (Cheung, H.S. (1315) 105)

Calcium-dependent protein kinase
Calmodulin antagonist; Calmodulin substrate; (*B. napus*) (Neumann, G.M. (1295) 34)

Calcium efflux
Mitochondrion; Spermatozoon (Breitbart, H. (1312) 79)

Calcium homeostasis
EPR; Exercise; Sarcoplasmic reticulum; ATPase, Ca^{2+}- (Ferrington, D.A. (1279) 203)

Parvalbumin; Oncomodulin; EF hand; Calcium-binding protein; Magnesium binding; Calcium signaling (Pauls, T.L. (1306) 39)

Calcium imaging
Platelet; Thrombin; ADP; Fluo-3; Calcium; Cytoplasmic; (Human) (Tao, J. (1311) 164)

Calcium influx factor
Arachidonic acid; U937 cell; Intracellular calcium regulation; Phospholipase A_2; Cytosol (Rzigalinski, B.A. (1299) 342)

Calcium ion
Membrane permeability; Potassium ion; Glucose-induced oscillation; Plasma membrane; (Pancreatic β-cell) (Eberhardson, M. (1283) 67)

Protein kinase II; Protein kinase IV; Structure; Regulation; Calmodulin; Calcium/calmodulin-dependent kinase (Soderling, T.R. (1297) 131)

Factor Xa; Plasminogen activator inhibitor-1; Heparin; Vitronectin (Urano, T. (1298) 199)

Platelet; Umbilical vein; Endothelial cell; Fura-2; (Human) (Van IJzendoorn, S.C.D. (1311) 64)

Collecting duct; Hybridization, in situ; Immunohistochemistry; Tamm-Horsfall protein; Kidney; (*Cricetomys gambianus*); (African giant rat) (Moutairou, K. (1313) 187)

S100 protein; Glial fibrillary acidic protein; Inhibitor TRTK-12; Epitope (Bianchi, R. (1313) 258)

Amino acid; Brain cell; Cell volume (Law, R.O. (1314) 43)

Calcium-45 ion binding
α-Tocopherol; Phosphatidylserine; DSC; FT-IR (Sánchez-Migallón, M.P. (1281) 23)

Calcium ion/calmodulin-dependent kinase II
Melatonin; Calmodulin; Autophosphorylation; Calmodulin antagonist; (Mechanism of action); (Rat brain) (Benítez-King, G. (1290) 191)

Calcium ion channel
Calcium ion pump; SERCA; Sarcoplasmic reticulum; ATPase, Ca^{2+}- (De Meis, L. (1275) 105)

Calcium ion concentration, cytosolic-free
Magnesium; Vascular smooth muscle (Yoshimura, M. (1312) 151)

Calcium ion, cytosolic free
Diadenosine polyphosphate; Fibroblast; Phospholipase C; (Human) (Tepel, M. (1312) 145)

Calcium ion dependence
HeLa cell; Patch clamp; Ammonium inhibition; Potassium ion current (Díaz, M. (1284) 119)

Calcium ion-depleted photosystem II
Manganese-cluster; Multiline signal; S_3 signal; Electron spin echo; Electron-electron double resonance (Hara, H. (1276) 140)

Calcium ion flux
Sodium–calcium ion exchange; Chlorotetracycline; Fluorescence; Plasma membrane; Synaptosome (García-Martín, E. (1280) 257)

Calcium ion, free
Acid secretion; Parietal cell; Aminopyrine accumulation; Calcium ion ionophore A23187; Cytosol (Li, Z.-Q. (1311) 133)

Calcium ion influx
Trichosporin-B; Adrenal chromaffin cell; Glioma C_6 cell; Bovine platelet (Tachikawa, E. (1282) 140)

Calcium ion, intracellular
Patch clamp; Platelet; Chloride channel (MacKenzie, A.B. (1278) 131)

Prostanoid receptor; Cross-talk; Protein kinase C; cyclic AMP; Megakaryocyte (Watanabe, T. (1304) 161)

Beta cell, pancreatic; Glucagon; Pyridine nucleotide, reduced; Calmodulin antagonist (He, L.-P. (1310) 325)

Calcium ion ionophore A23187
Acid secretion; Parietal cell; Aminopyrine accumulation; Calcium ion, free; Cytosol (Li, Z.-Q. (1311) 133)

Calcium ionophore
Adenylyl cyclase; A23187; S49 cell (Nakamura, J. (1313) 6)

Calcium ion oscillation
Mitochondrial potential; Rhodamine 123; Biguanide; Phenylephrine (Ubl, J.J. (1276) 124)

$Alpha_2$ cell; Glucose; Insulin; Amino acid; Adrenaline (Berts, A. (1310) 212)

Calcium ion pump
SERCA; Sarcoplasmic reticulum; Calcium ion channel; ATPase, Ca^{2+}- (De Meis, L. (1275) 105)

Sarcoplasmic reticulum; Thapsigargin; Intrinsic uncoupling; Gating (Davidson, G.A. (1289) 187)

Calcium ion regulation
Adiabatic compressibility; Partial specific volume; Polymerization; Actin; Acoustics (Suzuki, N. (1292) 265)

Calcium ion release
Quinolidomicin A_1; Ryanodine receptor; Sarcoplasmic reticulum; (Rabbit skeletal muscle) (Ohkura, M. (1294) 177)

Phospholipase A; Lysophosphatidylcholine; Membrane permeability; Mitochondrion; (Rat liver) (Rustenbeck, I. (1304) 129)

Calcium ion uptake
ATPase, Ca^{2+}-; Caffeine; Calcium store; Secretion; SERCA; (*Paramecium*) (Länge, S. (1278) 191)

Myoblast; 1,25$(OH)_2$-vitamin D_3; Protein kinase C; cyclic AMP; Signal transduction (Vazquez, G. (1310) 157)

Calcium metabolism
Calcium-binding protein; Crustacea; Mineralization; Organic matrix; (*O. cavimana*) (Luquet, G. (1293) 272)

Calcium mobilization
Signal transduction; Mathematical modeling; Membrane receptor; Agonist; Antagonist (Stickle, D. (1310) 242)

Calcium overload
Green fluorescent protein; NGF-induced differentiation; Transfection; Neuroprotection (Kuźnicki, J. (1313) 194)

Calcium pump
ATPase, Ca^{2+}-; Isoform; Plasma membrane; (Human) (Brown, B.J. (1283) 10)

Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Duchenne's disease; Dystrophy; Functional alteration; (Muscle) (Kargacin, M.E. (1290) 4)

Calcium signaling
Parvalbumin; Oncomodulin; EF hand; Calcium-binding protein; Magnesium binding; Calcium homeostasis (Pauls, T.L. (1306) 39)

Calcium store
ATPase, Ca^{2+}-; Caffeine; Calcium ion uptake; Secretion; SERCA; (*Paramecium*) (Länge, S. (1278) 191)

Calcium transport
Sarcoplasmic reticulum (Martonosi, A.N. (1275) 111)

Haloperidol; Sarcoplasmic reticulum; Ca-ATPase (Takara, D. (1314) 57)

Calcium-transporting ATPase
Membrane transport; Mutant; Uncoupling; Energy transduction; Conformational change (Andersen, J.P. (1275) 118)

Caldesmon
Calmodulin binding protein; Calpain, μ- and m-; Calponin; Substrate recognition; Conformation regulation (Croall, D.E. (1298) 276)

Calgranulin A
MRP8; CP10; S100 protein; Myeloid cell; (Mouse) (Nacken, W. (1315) 1)

Calmodulin
Cell swelling; Regulatory volume decrease; $Na^+/K^+/2Cl^-$ cotransport; Protein kinase C; Protein phosphatase (Mongin, A.A. (1285) 229)

Melatonin; Calcium ion/calmodulin-dependent kinase II; Autophosphorylation; Calmodulin antagonist; (Mechanism of action); (Rat brain) (Benítez-King, G. (1290) 191)

Heme pocket; Melittin; Geminate kinetics (Leclerc-L'Hostis, E. (1293) 140)

Protein kinase II; Protein kinase IV; Structure; Regulation; Calcium ion; Calcium/calmodulin-dependent kinase (Soderling, T.R. (1297) 131)

Napin-like protein; Protein kinase, Ca^{2+}-dependent; (*R. communis*); (*M. charantia*) (Neumann, G.M. (1298) 223)

Calcium; Protein kinase; Prolactin; Thyrotropin-releasing hormone; Calcium channel (Cui, Z.J. (1310) 343)

Heme; Fluorescence energy transfer; Trifluoperazine; Synergy (Leclerc L'Hostis, E. (1313) 209)

Calmodulin kinase; Thyroid hormone T_3; Immediate early gene; c-*fos*; Development; (Rat brain) (Krebs, J. (1313) 217)

Protein phosphorylation; Serine/threonine protein kinase; CaM kinase; Gastric carcinoma (Ohta, H. (1317) 175)

Calmodulin antagonist
Melatonin; Calmodulin; Calcium ion/calmodulin-dependent kinase II; Autophosphorylation; (Mechanism of action); (Rat brain) (Benítez-King, G. (1290) 191)

Protein kinase, Ca^{2+}-dependent; Napin small chain; Plant substrate; Purification; Sequencing; (*B. napus*) (Neumann, G.M. (1295) 23)

Calmodulin substrate; Calcium-dependent protein kinase; (*B. napus*) (Neumann, G.M. (1295) 34)

Beta cell, pancreatic; Glucagon; Pyridine nucleotide, reduced; Calcium ion, intracellular (He, L.-P. (1310) 325)

Calmodulin binding protein
Calpain, μ- and m-; Calponin; Caldesmon; Substrate recognition; Conformation regulation (Croall, D.E. (1298) 276)

Calmodulin-dependent protein kinase II
Autophosphorylation; Autoactivation; Thr-286/Thr-287 (Ishida, A. (1311) 211)

Calmodulin inhibitor peptide
Nucleus; Cell cycle (Wang, J. (1313) 223)

Calmodulin kinase
Calmodulin; Thyroid hormone T_3; Immediate early gene; c-*fos*; Development; (Rat brain) (Krebs, J. (1313) 217)

Calmodulin substrate
Calmodulin antagonist; Calcium-dependent protein kinase; (*B. napus*) (Neumann, G.M. (1295) 34)

Calorimetry
Lipid bilayer; Phospholipid; Submain phase transition; Theoretical model; Chain melting; Lattice melting (Nielsen, M. (1283) 170)

Calpain
Terbium; Calcium binding; Calcium-activated proteinase; (Human) (Raser, K.J. (1292) 9)

Autolysis; Phospolipid; Peptide; Peptide–phospholipid interaction (Arthur, J.S.C. (1293) 201)

Calcium; cDNA cloning; Cysteine proteinase; Intracellular proteinase; Proteinase (Sorimachi, H. (1309) 37)

Pneumocyte type II; Terbutaline; Protein kinase A (Zimmerman, U.-J.P. (1311) 117)

Calpain, *μ*- and *m*-
Calmodulin binding protein; Calponin; Caldesmon; Substrate recognition; Conformation regulation (Croall, D.E. (1298) 276)

Calponin
Calmodulin binding protein; Calpain, μ- and *m*-; Caldesmon; Substrate recognition; Conformation regulation (Croall, D.E. (1298) 276)

Calretinin
Calcium-binding protein; Colon adenocarcinoma; Adenocarcinoma; HT-29; Differentiation (Cargnello, R. (1313) 201)

Calvin cycle
Control analysis (Pettersson, G. (1289) 169)

Ca^{2+}/Mg^{2+} ecto-ATPase
Synaptosome; Plasma membrane; Extracellular ATP; Concanavalin A (Martín-Romero, F.J. (1283) 51)

CaM kinase
Protein phosphorylation; Calmodulin; Serine/threonine protein kinase; Gastric carcinoma (Ohta, H. (1317) 175)

Camptothecin
Transcription; Dihydrofolate reductase gene; Psoralen; 5,6-Dichloro-1-β-D-ribofuranosyl-benzimidazole (Ljungman, M. (1307) 171)

Cancer therapy
Liposome; Long-circulating liposome; Vincristine (Tokudome, Y. (1279) 70)

Cannabinoid
Differential scanning calorimetry; X-ray diffraction; Drug–membrane interaction (Mavromoustakos, T. (1281) 235)

Cannabinoid receptor
Peripheral; Binding property; Adenylyl cyclase inhibition; (Mouse) (Shire, D. (1307) 132)

5′ cap binding
Translational control; Eukaryotic translation initiation factor 4E; Intracellular distribution; Nuclear localization sequence; (Yeast) (Ptushkina, M. (1308) 142)

Capsaicin
NADH-ubiquinone reductase; Structure–activity relationship (Satoh, T. (1273) 21)

CAP site
Fli-1; Promoter; H-DNA; Cas-Br-E integration; Gene regulation; Viral activation (Barbeau, B. (1307) 220)

Carbohydrate binding
Acetylcholinesterase; Macrophage; Respiratory burst; Mannose receptor; Non-cholinergic action (Klegeris, A. (1289) 159)

Carbonate
Carbonic anhydrase; Crystal nucleation; Isoenzyme; Crystallinity; Enamel development; Mineralization (Kakei, M. (1289) 226)

Carbonic anhydrase
Carbonate; Crystal nucleation; Isoenzyme; Crystallinity; Enamel development; Mineralization (Kakei, M. (1289) 226)

Carbonic anhydrase II
GroEL; Chaperone; Peptidyl prolyl isomerase; (Human) (Persson, M. (1298) 191)

Carbon metabolism
Hexose uptake; Continuous culture (Meijer, M.M.C. (1277) 209)

Carbonyl hydrate
Carboxyl esterase; Inhibition; Activated carbonyl; Reaction mechanism; (Chicken liver) (Berndt, M.C. (1298) 159)

Carbonyl reductase
Glutathione *S*-transferase; Peptide mapping; Sequencing; (Chick liver) (Tsai, S.-P. (1292) 289)

Carboxyfluorescein release
Phospholipid bilayer; Triton X-100/sodium dodecyl sulfate mixed system; Permeability; Static light scattering; Stratum corneum (De la Maza, A. (1300) 125)

γ-Carboxyglutamate
Vitamin K; Vitamin K epoxide reductase; Carboxylase; Ubiquinone; Coenzyme Q; Plastoquinone (Ronden, J.E. (1298) 87)

Carboxykinase
Sulfhydryl group reactivity; Phospho*enol*pyruvate; Transition metal ion; Activation; Trypanosome; (*T. cruzi*) (Jurado, L.A. (1292) 188)

Carboxylase
Vitamin K; γ-Carboxyglutamate; Vitamin K epoxide reductase; Ubiquinone; Coenzyme Q; Plastoquinone (Ronden, J.E. (1298) 87)

Carboxyl esterase
Inhibition; Activated carbonyl; Carbonyl hydrate; Reaction mechanism; (Chicken liver) (Berndt, M.C. (1298) 159)

Serine esterase; NMR, ^{19}F-; Inhibition; Reaction mechanism; (Chicken liver) (Bowles, M.R. (1298) 167)

Carboxy terminal peptide
Chylomicron; Dietary-derived lipid; Immunoassay; Immunoaffinity chromatography; Postprandial profile (Lovegrove, J.A. (1301) 221)

Carcinoma
Oncocytoma; mitochondrial DNA; Gene expression; Oxidative phosphorylation (Heddi, A. (1316) 203)

Carcinoma cell
pH, intracellular; pH regulation; (Human colon); (Growth) (Bischof, G. (1282) 131)

Cardiac myosin
Motility assay, in vitro; Laser optical trap; Myosin (Sugiura, S. (1273) 73)

Cardiac troponin I
Diabetic cardiomyopathy; Diabetic heart; Troponin I phosphorylation; Troponin I gene expression (Liu, X. (1316) 78)

Cardioprotection
Estradiol 17β; Equine estrogen; Copper ion (Tang, M. (1299) 155)

Cardiotoxin
cDNA sequence; Gene expression; (*Naja naja atra*) (Chang, L.-S. (1295) 1)

Cardiotoxin III
1-Anilo-8-naphthalene; Chaotropic denaturant; Protein folding; (*Naja naja atra*) (Kumar, T.K.S. (1294) 103)

Cardosin
Aspartic proteinase; Proteolytic specificity; α_{s1}-Casein; Chymosin; (*Cynara cardunculus* L.) (Ramalho-Santos, M. (1297) 83)

Carnitine
High affinity binding; Sodium ion dependence; Brush border membrane; (Human placenta) (Roque, A.S. (1282) 274)

High affinity transport; High affinity binding; Plasma membrane; JAR choriocarcinoma cell; Human placenta (Prasad, P.D. (1284) 109)

Carnitine palmitoyl transferase; Red blood cell; Membrane phospholipid turnover; Hemodialysis (De los Reyes, B. (1315) 37)

Batten disease; Ceroid-lipofuscinosis; Lysosomal storage disease; Trimethyllysine; Protein modification; Metabolic defect; Hereditary disease (Katz, M.L. (1317) 192)

L(−)-Carnitine
L(−)-Carnitine dehydrogenase; Trimethylammonium compound; Enzyme purification; (*Agrobacterium*) (Hanschmann, H. (1290) 177)

Carnitine acyltransferase
Malonyl-CoA; Carnitine palmitoyl transferase; Mitochondrion; (Rat heart) (Bieber, L.L. (1290) 261)

Carnitine carrier
Citrate carrier; Mitochondrial carrier; Metabolite transport; Ornithine carrier; Oxoglutarate carrier; Phosphate carrier (Palmieri, F. (1275) 127)

Carnitine deficiency
mRNA level; Carnitine palmitoyltransferase II; (Mouse) (Hotta, K. (1289) 131)

L(−)-Carnitine dehydrogenase
L(−)-Carnitine; Trimethylammonium compound; Enzyme purification; (*Agrobacterium*) (Hanschmann, H. (1290) 177)

Carnitine distribution
Edrophonium; Quaternary nitrogen compound; (Rat) (Pessotto, P. (1299) 245)

Carnitine palmitoyl transferase
Malonyl-CoA; Mitochondrion; Carnitine acyltransferase; (Rat heart) (Bieber, L.L. (1290) 261)

Red blood cell; Carnitine; Membrane phospholipid turnover; Hemodialysis (De los Reyes, B. (1315) 37)

Carnitine palmitoyltransferase I
Dietary L-carnitine; Triacylglycerol; Ketone body; (Wistar rat) (Clouet, P. (1299) 191)

cDNA cloning; Fatty acid metabolism; Northern analysis (Yamazaki, N. (1307) 157)

Carnitine palmitoyltransferase II
Carnitine deficiency; mRNA level; (Mouse) (Hotta, K. (1289) 131)

β-Carotene
Zeaxanthin; Carotenoid; Lipid membrane; NMR, ^{1}H- (Gabrielska, J. (1285) 167)

Antioxidant; Erythrocyte; Phospholipid; Lipid peroxide; (Mouse) (Nakagawa, K. (1299) 110)

Carotenoid
Photosynthesis; Reaction center; Electron spin polarization; Quinone; Triplet; Iron removal; Electron paramagnetic resonance; Spectral simulation (Bosch, M.K. (1276) 106)

Membrane potential; Halobacterium; Ion pump; (Archaebacterium) (Ichi Seki, S. (1284) 79)

β-Carotene; Zeaxanthin; Lipid membrane; NMR, ^{1}H- (Gabrielska, J. (1285) 167)

Isoprenoid; Mutant; (*Mucor circinelloides*) (Fraser, P.D. (1289) 203)

Green algae; Lipid; Signaling; Stress (Thompson Jr., G.A. (1302) 17)

Antioxidant; Lipid peroxidation; α-Tocopherol; Ascorbic acid; (Chick embryo) (Surai, P.F. (1304) 1)

Carrier-mediated transport
Thyrotropin-releasing hormone; Lauric acid conjugated thyrotropin-releasing hormone; Intestinal absorption; Oligopeptide transporter; Absorption enhancer (Tanaka, K. (1283) 119)

Cartilage
Collagen; Pyridinium cross-link; Growth plate; Chondrocyte; Dyschondroplasia; (Tibia); (Chick) (Farquharson, C. (1290) 250)

Fibronectin; Chondrogenesis; Alternative splicing; Type III-9 repeat (Gehris, A.L. (1311) 5)

Chondrocyte; Intracellular calcium; Histamine; Fura-2 (Horwitz, E.R. (1313) 95)

Phospholipase A_2; Intervertebral disc; Chondrocyte; Spine; (Human) (Miyahara, K.-i. (1316) 183)

Fibronectin; Fibronectin fragment; Metalloproteinase; Cytokine (Bewsey, K.E. (1317) 55)

Fibronectin; Fibronectin fragment; Chondrocyte; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 134)

Fibronectin; Fibronectin fragment; Chondrocyte; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 143)

Carvedilol
Lipid peroxidation; Drug–membrane interaction; Liposome binding; Fluorescence; Scanning calorimetry (Cheng, H.-Y. (1284) 20)

Cas-Br-E integration
Fli-1; Promoter; CAP site; H-DNA; Gene regulation; Viral activation (Barbeau, B. (1307) 220)

α_{s1}-Casein
Cardosin; Aspartic proteinase; Proteolytic specificity; Chymosin; (*Cynara cardunculus* L.) (Ramalho-Santos, M. (1297) 83)

Casein kinase II
Sarcoplasmic reticulum; Sarcalumenin; Protein phosphorylation; Ryanodine receptor (Shoshan-Barmatz, V. (1283) 89)

Catabolism
Chylomicron; Transport of fat; Assembly; Apolipoprotein B; Core expansion; Space of Disse; (Liver, Intestine, Plasma) (Hussain, M.M. (1300) 151)

Catabolite repression
Trehalose; UDPG-pyrophosphorylase; *MAL4*^{C}; Gal3 (Dutra, M.B. (1289) 261)

Catalase
Cytoplasm; Peroxisome; Distinct protein; (Guinea pig liver) (Bulitta, C. (1293) 55)

Polysialic acid; Protein delivery; Covalent coupling (Fernandes, A.I. (1293) 90)

Hydrogen peroxide; Enzyme inactivation; (Bovine liver); (*Aspergillus niger*) (Lardinois, O.M. (1295) 222)

Sodium azide; Compound III; Enzyme inactivation; (Bovine liver) (Lardinois, O.M. (1298) 180)

Hydroperoxidase II; Heme d; Cyanide; Ligand binding kinetics; (*E. coli*); (Bovine liver) (Maj, M. (1298) 241)

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Catalytic antibody
Autoantibody; Light chain; Vasoactive intestinal polypeptide; Asthma; Phage display (Tyutyulkova, S. (1316) 217)

Catalytic mechanism
ATP synthase, F_1F_0-; ATPase, F_1-; Nucleotide binding site; Tryptophan fluorescence (Weber, J. (1275) 101)

Acetylcholinesterase; Anionic site; Electrostatic interaction; Salt effect; Molecular recognition; Allosteric modulation (Tõugu, V. (1298) 12)

Cataract
Aminophospholipid·MDA; Conjugated diene; Hydrogen peroxide; Lipid peroxide; Malondialdehyde; Oxidative stress; (Lens cellular membrane) (Bhuyan, D.K. (1285) 21)

Eye lens; Digital image analysis; Aqueous humor; Liposome; Lipid peroxidation; Retinal disease (Babizhayev, M.A. (1315) 87)

Catecholamine
Trichosporin; *Trichoderma polysporum*; Peptaibol; Ion channel; Adrenal chromaffin cell (Nagaoka, Y. (1283) 31)

Cathepsin B
Osteoblast-like cell; Interleukin-1β; Parathyroid hormone; Intracellular enzyme activity; Extracellular enzyme activity (Aisa, M.C. (1290) 29)

Proteinase; Homology modeling; Substrate docking; (*Ancylostoma caninum*); (Hookworm) (Brinkworth, R.I. (1298) 4)

Cathepsin D; Tissue-type plasminogen activator; Plasminogen activator inhibitor-1; Human umbilical vein endothelial cell (Kimura, Y. (1310) 1)

Cathepsin D
Cathepsin B; Tissue-type plasminogen activator; Plasminogen activator inhibitor-1; Human umbilical vein endothelial cell (Kimura, Y. (1310) 1)

Cathepsin G
Vitamin A deficiency; Neutrophil; Proteinase (Twining, S.S. (1317) 112)

Cathepsin H
Seed germination; Thiol proteinase; Aleurain; (*P. sativum* L.) (Jones, C.G. (1296) 13)

Cathepsin L
Liver; Ethanol; Lysosome; Proteinase; Hydrolase; Trafficking; Intracellular processing (Kharbanda, K.K. (1291) 45)

Cation cotransport
Lactose carrier; Salt bridge (Lee, J.-I. (1278) 111)

Melibiose carrier; Mutagenesis; (*E. coli*) (Franco, P.J. (1282) 240)

Cationic amino acid transport
Amino acid transport; Peripheral blood mononuclear cell; H13 gene; 4F2 gene; Antisense oligonucleotide; Oligonucleotide; (Human) (Chen, S. (1284) 1)

Cationic lipid
Membrane vesicle; Headgroup-chain linkage; Cholesterol; Fluorescence anisotropy; Phase transition (Bhattacharya, S. (1283) 21)

Counterion effect; Liposome; Transfection; Gene transfer; DNA (Aberle, A.M. (1299) 281)

Gene transfer; (Lung) (Fortunati, E. (1306) 55)

Cationic liposome
Gene transfer; Endocytosis; Transfection (Friend, D.S. (1278) 41)

Liposome; Oligonucleotide; Biodistribution; Antisense therapy (Litzinger, D.C. (1281) 139)

Bacterial biofilm; Langmuir adsorption isotherm; Thermodynamics; (*S. epidermidis*) (Sanderson, N.M. (1283) 207)

HIV-1; Cytotoxicity; Macrophage; (Human) (Konopka, K. (1312) 186)

Caveolae
Folate-binding protein; Drug targeting; Endocytosis; pH determination (Lee, R.J. (1312) 237)

***dmsCBA* operon**
Cytochrome *c*; Dimethylsulfoxide respiration; (*R. sphaeroides* f. sp. *denitrificans*) (Ujiiye, T. (1277) 1)

Cβ2 gene promoter
Protein phosphorylation; Protein kinase A isoform; Gene structure (Wiemann, S. (1309) 211)

C2C12
Negative transcription factor; Transfection; Gel retardation assay; In vivo footprinting (Ikeda, K. (1308) 67)

C_2-ceramide
Superoxide anion; *N*-Formylmethionylleucyl phenylalanine; Polymorphonuclear leukocyte; Protein kinase C; Phospholipase D; (Human) (Richard, A. (1299) 259)

CCTγ
Chaperonin; Ovary; Protein folding; (*Xenopus laevis*) (Walkley, N.A. (1309) 25)

CD4
Anti-HIV peptide; T22; Surface plasmon resonance; gp120; Tachyplesin (Tamamura, H. (1298) 37)

CD and optical spectrum
Alkaline phosphatase; Phosphorescence emission; Cytochrome *c*; Conformational change (Dadák, V. (1297) 69)

CDC47
MCM family; Cloning; cDNA; (Human) (Kiyono, T. (1307) 31)

CDK2
Protein kinase C; CDK-activating kinase; CDK7; Cyclin H; Cell cycle (Hamada, K. (1310) 149)

CDK7
Protein kinase C; CDK-activating kinase; Cyclin H; CDK2; Cell cycle (Hamada, K. (1310) 149)

CDK-activating kinase
Protein kinase C; CDK7; Cyclin H; CDK2; Cell cycle (Hamada, K. (1310) 149)

Ceftibuten transport
Brush border membrane; Oligopeptide; Solubilization; Reconstitution; Liposome; Renal cortex (Naasani, I. (1283) 185)

Cell adhesion
Cell cycle; Tyrosine kinase; Tyrosine kinase inhibitor (Kuzumaki, T. (1310) 185)

Immunoglobulin superfamily; Epithelial polarity; Cytokine; Molecular cloning (Schuster, V.L. (1311) 13)

Cell adhesion molecule
NF-κB; Pro-inflammatory cytokine; Glomerulonephritis; Pyrrolidine dithiocarbamate; Reactive oxygen intermediate (Sakurai, H. (1316) 132)

Cell adhesion regulator
RNA coding; Leukemia (Molla, A. (1315) 6)

Cell attachment
C-terminal propeptide; Type I collagen; Osteoblast (Mizuno, M. (1310) 97)

Bile acid; Bile salt; Biosynthesis; Cholesterol; Metabolism; Hepatocyte culture; Hydroxycholesterol (Sauter, G. (1300) 25)

Cell cycle
Icosanoid; Leukotriene; HETE; Colon cancer; Cell proliferation; Apoptosis (Bortuzzo, C. (1300) 240)

Protein kinase C; CDK-activating kinase; CDK7; Cyclin H; CDK2 (Hamada, K. (1310) 149)

Cell adhesion; Tyrosine kinase; Tyrosine kinase inhibitor (Kuzumaki, T. (1310) 185)

Plasma membrane redox; Cellular activation; Diaphorase (Zurbriggen, R. (1312) 215)

RAD51 gene; Primary human peripheral blood lymphocyte; mRNA expression; Protein expression; Transcriptional regulation; (Human) (Flygare, J. (1312) 231)

Calmodulin inhibitor peptide; Nucleus (Wang, J. (1313) 223)

Lymphocyte activation; Differential display; Gene expression; Redox control; Oxidative signaling; Reactive oxygen species (Goldstone, S.D. (1314) 175)

Cell death
Cytosolic calcium; Cell injury; Cell signaling; Gene regulation (Trump, B.F. (1313) 173)

Cell dielectric property
Dielectrophoresis; Electrorotation; Membrane capacitance; Membrane conductance (Huang, Y. (1282) 76)

Cell differentiation
Polyunsaturated fatty acid; Desaturation; Premonocytic cell (U937, Mono Mac 6); LDL (Hrboticky, N. (1302) 199)

RNA transcript; Poly(A)$^+$; (Murine erythroleukemia cell) (Vizirianakis, I.S. (1312) 8)

Cell electrodynamics
Electrical breakdown; Cell membrane; Electroporation; Electric field; Lethal effect (Kekez, M.M. (1278) 79)

Electrorotation; Induced electric dipole; Cell membrane; Membrane capacitance (Mahaworasilpa, T.L. (1281) 5)

Cell fate
Stem cell; Differentiation; Pluiripotency; Lineage; Plasticity (Green, J. (1288) R9)

Cell-free extract
Antisense oligonucleotide; Cytokine; Tumor necrosis factor; Lymphotoxin (Lefebvre d'Hellencourt, C. (1317) 168)

Cell-free system
Superoxide anion; NADPH oxidase; p40-phox; Cytosolic factor; Neutrophil (Someya, A. (1277) 217)

Cell-free translation
ATP regulation; Obelin mRNA; Luminescence (Matveev, S.V. (1293) 207)

Cell growth
Antiproliferation; Deoxyhypusine synthase; Eukaryotic translation initiation factor 5A; Tumorigenic cell line (Shi, X.-P. (1310) 119)

Articular chondrocytes; Type II transglutaminase; Collagen synthesis; Differentiation; Adhesion (Borge, L. (1312) 117)

Diallyl disulfide; Free calcium; ATPase, Ca^{2+}- (Sundaram, S.G. (1315) 15)

Cell growth control
Galectin-1; Lectin; Fusion protein; Proteinase (Adams, L. (1312) 137)

Cell injury
Cytosolic calcium; Cell death; Cell signaling; Gene regulation (Trump, B.F. (1313) 173)

Cell killing
Mitochondrion; Photosensitizer; Porphyrin; Oxidative stress; Human cultured cell (Munday, A.D. (1311) 1)

Cell line
Platelet-derived growth factor B chain; Malignant mesothelioma; Transcription regulation; Promoter (Prins, J.-B. (1317) 223)

Cell-matrix interaction
Glycoprotein, multidomain; Thrombospondin 1; Monoclonal antibody; Sulfhydryl–disulfide interchange; Inflammation; (Human rheumatoid synovial fluid) (Matthias, L.J. (1296) 138)

Cell membrane
Electrical breakdown; Cell electrodynamics; Electroporation; Electric field; Lethal effect (Kekez, M.M. (1278) 79)

Electrorotation; Cell electrodynamics; Induced electric dipole; Membrane capacitance (Mahaworasilpa, T.L. (1281) 5)

Cell membrane fluidity
Drug resistance counteraction; Metastatic potential (Leibovici, J. (1281) 182)

Cell motility
Aginactin; Actin; Cytoskeleton; Chemotaxis (Eddy, R.J. (1314) 247)

Cellobiose dehydrogenase
Cellobiose oxidase; FAD fragment; Heme fragment; Small-angle X-ray scattering; Shape; (*P. chrysosporium*) (Lehner, D. (1293) 161)

Cellobiose oxidase
Cellobiose dehydrogenase; FAD fragment; Heme fragment; Small-angle X-ray scattering; Shape; (*P. chrysosporium*) (Lehner, D. (1293) 161)

Cell proliferation
Icosanoid; Leukotriene; HETE; Colon cancer; Cell cycle; Apoptosis (Bortuzzo, C. (1300) 240)

Embryonic interferon; Murine IFNαE (Beare, D. (1310) 81)

Annexin II; Phosphorylation; B cell lymphoma; DNA replication (Chiang, Y. (1313) 295)

Arachidonic acid metabolism; Indomethacin; Mammary carcinoma (Tripathi, S.C. (1316) 5)

Cell shape
Erythrocyte; Hemolysis; Polyol; Dielectric constant; Partition coefficient; Cryoprotectant toxicity (Bakaltcheva, I.B. (1280) 73)

Cell signaling
Cytosolic calcium; Cell injury; Cell death; Gene regulation (Trump, B.F. (1313) 173)

Cell surface marker
Alzheimer's amyloid; Lymphocyte; Activation (Bullido, M.J. (1313) 54)

Cell swelling
Regulatory volume decrease; $Na^+/K^+/2Cl^-$ cotransport; Calmodulin; Protein kinase C; Protein phosphatase (Mongin, A.A. (1285) 229)

Cell type-specific expression
Promoter; *lac*Z; Differentiation (Tsang, A. (1309) 100)

Cellular activation
Plasma membrane redox; Diaphorase; Cell cycle (Zurbriggen, R. (1312) 215)

Cellular aggregation
Retinoic acid; Neuronal differentiation; Immunohistochemistry; Patch clamp; (Embryonic stem cell) (Van Inzen, W.G. (1312) 21)

Cellular differentiation
Sphingosine kinase; Protein kinase C; Phorbol ester; (Human erythroleukemia cell) (Buehrer, B.M. (1303) 233)

Cellular regulation
Enzyme structure and mechanisms; Phosphorylation; (Category) (Bensen, E.S. (1292) 249)

Cellular retinol binding protein
Retinoic acid; In vitro synthesis; Sertoli cell; Peritubular cell (Cavazzini, D. (1313) 139)

Cell volume
Glutamate; Chloroquine; NH_4^+; Cytosolic pH; Lysosome (Busch, G.L. (1285) 212)

Brain cell; Amino acid efflux (Law, R.O. (1314) 34)

Amino acid; Brain cell; Calcium ion (Law, R.O. (1314) 43)

Cell wall
Crosslinking; Peptidoglycan; CPMAS NMR; Cephalothin; (*B. subtilis*) (Shenouda, N.S. (1289) 217)

Cell wall protein
Cwp2p; GPI-anchor; β-1,6-Glucan; (Yeast) (Van der Vaart, J.M. (1291) 206)

Centromere protein B
Genomic clone; Intronless coding sequence; (Hamster) (Bejarano, L.A. (1307) 21)

Centrosomal protein
cDNA expression-cloning; Centrosome; Coiled-coil; Proline-rich region (Angiolillo, A. (1309) 194)

Centrosome
cDNA expression-cloning; Centrosomal protein; Coiled-coil; Proline-rich region (Angiolillo, A. (1309) 194)

Cephalothin
Crosslinking; Peptidoglycan; CPMAS NMR; Cell wall; (*B. subtilis*) (Shenouda, N.S. (1289) 217)

Ceramide
Dimethylsphingosine; Glycosphingolipid, lyso-; NMR, ^{2}H-; Bilayer (Rigby, A.C. (1284) 129)

Diacylglycerol; Ras; Fibroblast; Molecular species; Phospholipid (Laurenz, J.C. (1299) 146)

Pancreatic islet; Sphingomyelin; Nitric oxide (Kwon, G. (1300) 63)

Stratum corneum; Phase behavior; X-ray diffraction; (Porcine) (Bouwstra, J.A. (1300) 177)

Sphingomyelin; Sphingolipid; Signal transduction; Immune response (Ballou, L.R. (1301) 273)

Ceramide elevation
Glucosylceramide synthase induction; Acetylsphingosine effect; Glucosylceramide synthase inhibitor; Sphingomyelinase effect; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; 1-Phenyl-2-palmitoylamino-3-pyrrolidino-1-propanol; D-*threo*-1-Pyrrolidino-1-deoxyceramide (Abe, A. (1299) 333)

Cerebrocortical slice
Phosphoinositide breakdown; Inositol tetrakisphosphate; Muscarinic receptor; Depolarization; Osmolarity (Myles, M.E. (1310) 19)

Ceroid-lipofuscinosis
Batten disease; Lysosomal storage disease; Carnitine; Trimethyllysine; Protein modification; Metabolic defect; Hereditary disease (Katz, M.L. (1317) 192)

Ceruloplasmin
Molten globule; Circular dichroism; Fluorescence; Second derivative spectroscopy (De Filippis, V. (1297) 119)

Gene expression; Immune cell; Lymphocyte; Copper (Pan, Y. (1307) 233)

Lipoprotein; LDL; Oxidation; Inflammation; (Rat) (DiSilvestro, R.A. (1317) 81)

Cervical carcinoma
Chloride channel; Volume regulation (Shen, M.-R. (1315) 138)

CETP
LpA-I; Hepatic lipase; Remodeling, LpA-I (Ohta, T. (1303) 137)

c-*fos*
Angiotensin II; Hepatocyte; Proto-oncogene (González-Espinosa, C. (1310) 217)

Calmodulin kinase; Calmodulin; Thyroid hormone T_3; Immediate early gene; Development; (Rat brain) (Krebs, J. (1313) 217)

Chain melting
Lipid bilayer; Phospholipid; Submain phase transition; Theoretical model; Lattice melting; Calorimetry (Nielsen, M. (1283) 170)

Channel
Dioxygen; Respiratory enzyme (Riistama, S. (1275) 1)

Channel lifetime
Lipid membrane; Gramicidin; Deformation free energy; Liquid crystal (Ring, A. (1278) 147)

Chaotropic anion
Phosphatidylethanol; NMR, ^{13}C-; Liposome; Packing constraint; Electrostatic force; Anionic phospholipid; Phospholipid hydration (Victorov, A.V. (1283) 151)

Chaotropic denaturant
1-Anilo-8-naphthalene; Cardiotoxin III; Protein folding; (*Naja naja atra*) (Kumar, T.K.S. (1294) 103)

Chaperone
Glyoxysome; Mitochondrion; Isoenzyme; Folding; (*Citrullus vulgaris*) (Gietl, C. (1274) 48)

p53 protein; Heat shock protein; Binding; Mitochondrion; (Human); (Mouse) (Merrick, B.A. (1297) 57)

GroEL; Carbonic anhydrase II; Peptidyl prolyl isomerase; (Human) (Persson, M. (1298) 191)

Heat shock protein; Heat shock cognate; Hsc70; (*Xenopus*) (Ali, A. (1309) 174)

Endoplasmic reticulum protein; Quantitative reverse transcription-polymerase chain reaction; mRNA expression (Marcus, N. (1309) 253)

Aspirin; α-Crystallin; Glycation; Malate dehydrogenase (Heath, M.M. (1315) 176)

Chaperonin
Heat shock protein; *groEL* gene; Thermophile; Cyanobacterium; GroEL protein (Furuki, M. (1294) 106)

CCTγ; Ovary; Protein folding; (*Xenopus laevis*) (Walkley, N.A. (1309) 25)

Characterization
Acid trehalase; Sucrase; Enzyme aggregation; (*S. cerevisiae*) (Biswas, N. (1290) 95)

Dipeptidyl peptidase II; Seminal plasma; Purification; Amino acid sequence (Huang, K. (1290) 149)

Hemoglobin, prokaryotic; Cyanoglobin, recombinant; Spectroscopy; Structural analysis; (*N. commune* UTEX 584) (Thorsteinsson, M.V. (1292) 133)

Proteinase ECP 32; Metalloproteinase; Purification; Ion-exchange chromatography; Gel filtration (size exclusion); (*E. coli*) (Matveyev, V.V. (1296) 55)

Invertase, S- and F-form; Extracellular enzyme; Purification; (*A. nidulans*) (Chen, J.-s. (1296) 207)

PTH/PTHrP receptor; Porcine; Cloning (Smith, D.P. (1307) 339)

Phosphofructokinase; Beta cell; Isoform; Expression; (Rat pancreas) (Ma, Z. (1308) 151)

Charcoal adsorption
Insulin-like growth factor-II; Site exclusion chromatography (Bach, L.A. (1313) 79)

Charged phospholipid
Phospholipid hydration; BET theory; Physical adsorption (Jendrasiak, G.L. (1279) 63)

Charge separation
Photosynthesis; Electron transfer; Dielectric relaxation; Protein relaxation; Protein, dielectric (Krishtalik, L.I. (1273) 139)

Photosystem II; Hydrogen bond; Cryoprotectant; LHC II (Vasil'ev, S. (1276) 35)

Charge-transfer mechanism
Cytochrome bc_1 complex; Ubiquinone; Q-cycle; Deprotonation (Brandt, U. (1275) 41)

Chemical labeling
ATPase, F_1-; Asymmetry; NbfCl (Haughton, M.A. (1276) 154)

Chemical stability
Gamma irradiation; Liposome; Physical stability; DSC; Thin-layer chromatography/fast atom bombardment mass spectrometry; Degradation (Zuidam, N.J. (1280) 135)

Chemoreceptor
mcpA gene; Symbiotic plasmid; Hydrogenase; (*Rh. leguminosarum*) (Brito, B. (1308) 7)

Chemotaxis
S100 protein; Inflammation; Macrophage; Endothelial cell; Cytokine (Geczy, C. (1313) 246)

Haptotaxis; $\alpha_v\beta_3$ Integrin; Fibrinogen; Vitronectin (Senger, D.R. (1314) 13)

Aginactin; Actin; Cytoskeleton; Cell motility (Eddy, R.J. (1314) 247)

Chenodeoxycholic acid
Bile acid; Cholestyramine; Hepatic uptake; Mass spectrometry (Einarsson, K. (1317) 19)

Chi parameter
Excimer method; Phase transition; Phospholipid; Interdigitated gel structure; Deuterium oxide (Kinoshita, K. (1284) 233)

Chief cell
Substance P; Pepsinogen release; Receptor regulation (Kitsukawa, Y. (1312) 105)

Chimeric enzyme
ATPase, H^+-; Plasma membrane; Yeast (Mason, A.B. (1284) 181)

Chimeric gene
RNA editing; Mitochondrion; Point mutation; (Sugarbeet) (Kubo, T. (1307) 259)

Chinonin
Nitrous oxide; Ischemia-reperfusion injury; Oxygen free radical; Electron spin resonance (Zhao, B.-L. (1315) 131)

Chitin
Chitosan; Lysozyme; Chitosanase; NMR; Sequence specificity; (*Bacillus* sp.) (Vårum, K.M. (1291) 5)

Chitinases
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Chitosan
Chitin; Lysozyme; Chitosanase; NMR; Sequence specificity; (*Bacillus* sp.) (Vårum, K.M. (1291) 5)

Chitosanase
Chitin; Chitosan; Lysozyme; NMR; Sequence specificity; (*Bacillus* sp.) (Vårum, K.M. (1291) 5)

Chl*a* fluorescence quenching
Absorption cross-section of photosystem II; Plastoquinone pool; Pump-probe fluorescence method (Samson, G. (1276) 147)

Chloramphenicol acetyltransferase
Glutathione *S*-transferase; Antioxidant responsive element; ELISA (Wang, B. (1307) 104)

Chloride accumulation
Ehrlich tumor cell; Cotransporter, $Na^+/K^+/Cl^-$; Sodium ion transport; Potassium ion transport; Chloride ion transport (Thomas-Young, R.J. (1280) 231)

Chloride–bicarbonate (hydroxide) ion exchange
Chloride ion transport; Hydroxide ion gradient; Bicarbonate ion gradient; Sodium–chloride absorption; (Human colon) (Mahajan, R.J. (1280) 12)

Chloride channel
Patch clamp; Platelet; Calcium ion, intracellular (MacKenzie, A.B. (1278) 131)

Mutagenesis; Muscle; Blocker; Baculovirus (Astill, D.St.J. (1280) 178)

Ciliary membrane; Voltage-dependence; Bursting activity; IAA-94; (*Tetrahymena*) (Fujiwara-Hirashima, C. (1280) 207)

Acidification; ATPase, V-; Sodium ion–proton exchanger; Monensin; Rab4; Rab5; (Early endosome); (BBM vesicle); (Proximal tubule) (Marshansky, V. (1284) 171)

Distal tubule; cyclic AMP; PTH (Denicourt, N. (1285) 155)

Cervical carcinoma; Volume regulation (Shen, M.-R. (1315) 138)

Chloride current
Transient outward current; Methanesulfonate; Aspartate; Caffeine; Chloride ion substitute; (Rat ventricular myocytes) (Lefevre, T. (1273) 31)

Chloride depletion
Photosystem II; Core complex; Difference spectroscopy; Proton release; Electron transfer; Histidine oxidation (Haumann, M. (1273) 237)

Chloride ion channel
Cystic fibrosis transmembrane conductance regulator; Yeast; Expression; Initiation codons (Huang, P. (1281) 80)

Chloride ion substitute
Transient outward current; Chloride current; Methanesulfonate; Aspartate; Caffeine; (Rat ventricular myocytes) (Lefevre, T. (1273) 31)

Chloride ion transport
Ehrlich tumor cell; Cotransporter, $Na^+/K^+/Cl^-$; Chloride accumulation; Sodium ion transport; Potassium ion transport (Thomas-Young, R.J. (1280) 231)

Chloride–bicarbonate (hydroxide) ion exchange; Hydroxide ion gradient; Bicarbonate ion gradient; Sodium–chloride absorption; (Human colon) (Mahajan, R.J. (1280) 12)

Chlorophyll
Excitation energy transfer; Kinetic model; Photosynthesis; Picosecond fluorescence; Primary charge separation; Thermal equilibrium (Dau, H. (1273) 175)

Chloroplast
Mitochondion–chloroplast interaction; Mitochondrion; Redox balance; ATP production; Biosynthesis (Gardeström, P. (1275) 38)

F_0F_1-ATP synthase; H^+/ATP coupling ratio (Berry, S. (1276) 51)

Photosynthesis; Photosystem II; Site-directed mutagenesis; Membrane protein; Bicarbonate; Formate; (*Chlamydomonas reinhardtii*) (Hutchison, R.S. (1277) 83)

Nucleoside diphosphate kinase; Immunoblotting; Affinity chromatography; (Spinach) (Yang, L.-M. (1294) 99)

Limited proteolysis; NAD(P)-GAPDH; Light activation; Aggregation; (*S. aureus* endoproteinase V8); (Spinach) (Scheibe, R. (1296) 228)

Chloroplast isoform
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Chloroquine
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Chlorotetracycline
Sodium–calcium ion exchange; Fluorescence; Calcium ion flux; Plasma membrane; Synaptosome (García-Martín, E. (1280) 257)

CHO-K1 cell
Phosphatidylethanolamine; Fumonisin; Ovary; (Chinese hamster) (Badiani, K. (1304) 190)

Cholestanol
Serum 27-hydroxycholesterol; Sterol 27-hydroxylase; Point mutation; Cerebrotendinous xanthomatosis (CTX) (Chen, W. (1317) 119)

Cholestatrienol
Rhodopsin–cholesterol interaction; Cholesterol; Ergosterol; Tryptophan fluorescence; Rod outer segment disk membrane; (Bovine) (Albert, A.D. (1285) 47)

Cholesterol
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Pressure effect; DPPC; Multilamellar vesicle; FTIR (Reis, O. (1279) 5)

DSC; Bilayer; Partitioning; Phospholipid; Thermodynamics; Regular solution (Spink, C.H. (1279) 190)

Glycoalkaloid; Erythrocyte; Caco-2; Mitochondrion; Permeabilization; Membrane disruption (Keukens, E.A.J. (1279) 243)

Air/water interface; Fluorescence microscopy; Liquid; Miscibility; Phospholipid; Ternary mixture (Hagen, J.P. (1280) 169)

Ethylazinphos; Fluorescent probe; Membrane organization; Partition coefficient (Videira, R.A. (1281) 65)

Membrane vesicle; Cationic lipid; Headgroup-chain linkage; Fluorescence anisotropy; Phase transition (Bhattacharya, S. (1283) 21)

Membrane protein thermostability; ATPase, Ca^{2+}/Mg^{2+}-; DSC; Heat shock (Ortega, A. (1283) 45)

Renal secretion; Organic cation; Tetraethylammonium; Membrane fluidity; Brush border membrane (Nabekura, T. (1283) 232)

Rhodopsin–cholesterol interaction; Cholestatrienol; Ergosterol; Tryptophan fluorescence; Rod outer segment disk membrane; (Bovine) (Albert, A.D. (1285) 47)

Monensin; Microdomain; Time-resolved polarization; Polarization (Bransburg-Zabary, S. (1285) 146)

Phosphatidylethanolamine; Lamellar phase; Inverted hexagonal phase; DSC; X-ray diffraction (Takahashi, H. (1289) 209)

Rod outer segment disk; Rhodopsin; Metarhodopsin; Thermal stability; DSC (Albert, A.D. (1297) 77)

Hepatocyte gene regulation; mRNA quantitation; Lipoprotein; Apolipoprotein; Ester (Rea, T.J. (1299) 67)

HMG-CoA reductase; LDL receptor; Renal carcinoma; Transcript (Rudling, M. (1299) 75)

Arteriosclerosis; Cholesteryl ester; Reverse cholesterol transport; Peroxidation; Lipoprotein; α-Tocopherol (Stein, O. (1299) 216)

Membrane disruption; Triterpenoid saponin; Structure–activity relationship; (*Aralia*) (Hu, M. (1299) 252)

Bile acid; Bile salt; Biosynthesis; Cell culture; Metabolism; Hepatocyte culture; Hydroxycholesterol (Sauter, G. (1300) 25)

Adrenal steroidogenesis; Cytochrome *P*-450; Liposome; Aldosterone synthesis; Metabolism; (Bovine adrenal) (Kominami, S. (1301) 199)

Major intrinsic protein; Intercellular junction; Junctional lipid; Boundary lipid; Ethanolamine glycerophospholipid; Sphingomyelin; (Bovine ocular lens) (Baumann, C.G. (1303) 145)

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Cholesterol absorption
Cholesterol synthesis; LDL receptor activity; LDL-cholesterol production; (Hamster) (Hoffmann, A. (1299) 95)

Cholesterol analog
Thermotropic phase behavior; Phase behavior; DSC; 1-Stearoyl-2-oleoylphosphatidylcholine bilayer (Vilchèze, C. (1279) 235)

Cholesterol biosynthesis
Acyl CoA:cholesterol acyltransferase inhibitor; VLDL; LDL receptor; (Liver) (Graham, A. (1302) 46)

Cholesterol efflux
HDL oxidation; Atherosclerosis; Lipoprotein oxidation (Rifici, V.A. (1299) 87)

HDL; Reverse cholesterol transport; Reconstituted HDL; Macrophage (Bernini, F. (1299) 103)

Fatty acid; HDL; HDL phospholipid (Sakr, S.W. (1300) 49)

Apolipoprotein A-I; Apolipoprotein E; HDL subclass; Tangier disease (Von Eckardstein, A. (1301) 255)

Cholesterol ester
Hydrolysis; Mammalian tissue (Hui, D.Y. (1303) 1)

Cholesterol esterase
Cholesteryl ester hydrolase; Developmental change; Protein kinase A; Enzyme phosphorylation; Transcriptional regulation; (Rat liver) (Natarajan, R. (1302) 153)

Cholesterol esterification
Interleukin-1; Atherosclerosis (Mazière, C. (1300) 30)

Cholesterol homeostasis, intracellular free
Acyl-coenzyme A:cholesterol acyltransferase; Homeostasis; Sterol-induced activation; Hepatoblastoma cell; (Human) (Matsuda, H. (1301) 76)

Cholesterol oxidation
Oxygen isotope; Soybean lipoxygenase; Copper oxidation; Mass spectrometry (Breuer, O. (1302) 145)

Cholesterol synthesis
Cholesterol absorption; LDL receptor activity; LDL-cholesterol production; (Hamster) (Hoffmann, A. (1299) 95)

Cholesterol uptake
L-cell; Sterol carrier protein-2; Transfection (Moncecchi, D. (1302) 110)

Cholesteryl ester
Arteriosclerosis; Cholesterol; Reverse cholesterol transport; Peroxidation; Lipoprotein; α-Tocopherol (Stein, O. (1299) 216)

Cholesteryl ester accumulation
Neutral cholesterol esterase; Estradiol 17β; Estradiol 17α; J774 A.1 cell; cyclic AMP-dependent protein kinase (Tomita, T. (1300) 210)

Cholesteryl ester hydrolase
Cholesterol esterase; Developmental change; Protein kinase A; Enzyme phosphorylation; Transcriptional regulation; (Rat liver) (Natarajan, R. (1302) 153)

Cholesteryl ester hydroperoxide
LDL; Glycation; Phospholipase A_2; Phosphatidylcholine; Hydroperoxide platelet activating factor acetylhydrolase (Sakurai, T. (1301) 85)

Cholesteryl ester transfer protein
Apolipoprotein A-IV; Pyrene (Main, L.A. (1300) 17)

Phospholipid transfer protein; Mass transfer rate; Activity; Lipid parameter; (Human) (Cheung, M.C. (1303) 103)

HDL remodeling; Apolipoprotein structure; Apolipoprotein A-I; Lecithin-cholesterol acyltransferase (Calabresi, L. (1304) 32)

Lipid transfer protein; Apolipoprotein; Amphipathic helix; Cholesteryl sulfate; Recessive X-linked ichthyosis; Sperm acrosome; Lipopolysaccharide (Connolly, D.T. (1304) 145)

Cholesteryl sulfate
Cholesteryl ester transfer protein; Lipid transfer protein; Apolipoprotein; Amphipathic helix; Recessive X-linked ichthyosis; Sperm acrosome; Lipopolysaccharide (Connolly, D.T. (1304) 145)

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Choline
Progesterone; Diacylglycerol; Phospholipase D; Diacylglycerol kinase; Phosphatidate phosphohydrolase meiosis; (Oocyte, *Rana*) (Kostellow, A.B. (1304) 263)

Choline kinase
Cultured cell; Epidermal growth factor; Glycerophosphate acyltransferase; Insulin; Phospholipid; (Human) (Uchida, T. (1304) 89)

Cholinergic
Active site; Apyrase; 5′-*p*-Fluorosulfonylbenzoyladenosine; (*Torpedo*) (Martí, E. (1282) 17)

Chondrocyte
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Collagen; Pyridinium cross-link; Growth plate; Cartilage; Dyschondroplasia; (Tibia); (Chick) (Farquharson, C. (1290) 250)

Intracellular calcium; Histamine; Fura-2; Cartilage (Horwitz, E.R. (1313) 95)

Phospholipase A_2; Intervertebral disc; Cartilage; Spine; (Human) (Miyahara, K.-i. (1316) 183)

Fibronectin; Fibronectin fragment; Cartilage; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 134)

Fibronectin; Fibronectin fragment; Cartilage; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 143)

Chondrogenesis
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Chondrolysis
Fibronectin; Fibronectin fragment; Cartilage; Chondrocyte; Antioxidant; Repair (Homandberg, G.A. (1317) 134)

Fibronectin; Fibronectin fragment; Cartilage; Chondrocyte; Antioxidant; Repair (Homandberg, G.A. (1317) 143)

Chondrosarcoma
Calcium; Kupffer cell; Liposome; Opsonin; Reticuloendothelial system; Splenic macrophage; (Rat) (Moghimi, S.M. (1285) 56)

Chromatin
Histone; Acetylation; Nucleosome; Deacetylase; (Maize); (*Physarum*); (Chicken) (Lechner, T. (1296) 181)

DNA topoisomerase II; Spermatogenesis; Isoform (Galande, S. (1308) 58)

Chromatofocusing
Glyceraldehyde-3-phosphate dehydrogenase; Covalent modification; Hibernation; Enzyme isoform; (*J. orientalis*) (Soukri, A. (1292) 177)

Chromatophore
Proton/hydride ratio; Nicotinamide nucleotide transhydrogenase; Hydride ion transfer; Liposome; Overexpression (Bizouarn, T. (1273) 4)

N,*N*′-Dicyclohexylcarbodiimide; ATP synthase; F_oF_1 complex (Zanotti, F. (1276) 80)

Chromosomal localization
cDNA cloning; Gene structure; Targeted gene disruption; Leukotriene; Inflammation; Platelet; Macrophage; Epidermis (Funk, C.D. (1304) 65)

AMP deaminase; Tandem promoter; Myoadenylate deaminase deficiency (Mahnke-Zizelman, D.K. (1306) 75)

AMP deaminase; Tandem promoter (Mahnke-Zizelman, D.K. (1308) 122)

Chromosome 5
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Chromosome 9q
Neuron-derived orphan receptor-1; Orphan receptor; Neural development; Steroid/thyroid receptor superfamily (Ohkura, N. (1308) 205)

Chronic progressive external ophthalmoplegia
Cytochrome *c* oxidase; Mitochondrial protein; Immunohistochemistry; Monoclonal antibody; (Human) (Taanman, J.-W. (1315) 199)

Chylomicron
Lipoprotein lipase; VLDL; LDL; Apolipoprotein E (Carrero, P. (1299) 198)

Catabolism; Transport of fat; Assembly; Apolipoprotein B; Core expansion; Space of Disse; (Liver, Intestine, Plasma) (Hussain, M.M. (1300) 151)

Carboxy terminal peptide; Dietary-derived lipid; Immunoassay; Immunoaffinity chromatography; Postprandial profile (Lovegrove, J.A. (1301) 221)

Postprandial lipemia; Remnant lipoprotein metabolism; Triglyceride; Retinyl palmitate; Gel chromatography (Orth, M. (1303) 22)

Chymosin
Cardosin; Aspartic proteinase; Proteolytic specificity; α_{s1}-Casein; (*Cynara cardunculus* L.) (Ramalho-Santos, M. (1297) 83)

Chymotrypsin
Cold adaptation; Isozyme; N-terminal amino-acid sequence analysis; Mass spectrometry; Serine proteinase; (*G. morhua*) (Leth-Larsen, R. (1297) 49)

Cilastatin sensitive
D-Amino acid-peptide hydrolase; Substrate spectrum; Kinetic study; Metalloenzyme; (Porcine kidney) (Watanabe, T. (1298) 109)

Ciliary membrane
Chloride channel; Voltage-dependence; Bursting activity; IAA-94; (*Tetrahymena*) (Fujiwara-Hirashima, C. (1280) 207)

Circular dichroism
Energy migration; Light harvesting chlorophyll *a*/*b* complex (LHCII); Psi-type aggregate; Singlet-singlet annihilation; Ultrafast absorbance transient (Barzda, V. (1273) 231)

Heme-copper oxidase; *Qox* operon; Magnetic circular dichroism; Lipoprotein; (*Thermus thermophilus*) (Zickermann, I. (1277) 93)

DSC; Titration calorimetry; Multilamellar vesicle; Filipin III; Dimyristoylphosphatidylcholine; Lipid bilayer (Milhaud, J. (1278) 223)

Sodium ion channel; Model peptide; Conformation (Helluin, O. (1279) 1)

Mastoparan-B; NMR, ^{1}H-; Simulated annealing; (*V. basalis*) (Chuang, C.-C. (1292) 1)

Peptide synthesis; Gene engineering; Alpha helix; De novo design; Hydrophobic interaction (Kojima, S. (1294) 129)

Tryptophanase; Pyridoxal phosphate; Quasi-substrate; Mutant enzyme; Fluorescence; (*E. coli*) (Ben-Kasus, T. (1294) 147)

Myoglobin; Solvent effect; Glycerol; Conformational change; Small-angle scattering X-ray analysis; (Horse heart) (Barteri, M. (1295) 51)

Phosphoglycerate mutase; Site-directed mutagenesis; Phosphorylated enzyme; Mass spectrometry; (*S. pombe*); (*S. cerevisiae*) (Nairn, J. (1296) 69)

β-1,3-Glucanase; Thermoinactivation; Nuclear magnetic resonance; (*O. xanthineolytica*) (Parrado, J. (1296) 145)

Ceruloplasmin; Molten globule; Fluorescence; Second derivative spectroscopy (De Filippis, V. (1297) 119)

Manganese-stabilizing protein; Secondary structure; Thermostability; Fourier-transform infrared spectroscopy (Sonoyama, M. (1297) 167)

eIF-(iso)4F; Conformational transition; pH dependence; Ligand binding (Wang, Y. (1297) 207)

Cytochrome *c*; Hemoprotein; Unfolding intermediate; Voltammetry (Ferri, T. (1298) 102)

Beta peptide; FTIR spectroscopy; Toxicity; PC 12 cell; Secondary structure (Buchet, R. (1315) 40)

Cisplatin
cis-Diamminedichloroplatinum(II); Phospholipid; Large unilamellar vesicle; Membrane (Speelmans, G. (1283) 60)

3,3′-Diaminobenzidine tetrahydrochloride; Dithiothreitol; β-Mercaptoethanol (Chao, J.C. (1307) 213)

Citral
Retinoic acid synthesis; Cytochrome *P*-450 1A1; Purification; α-Naphthoflavone (Tomita, S. (1290) 273)

Citrate carrier
Carnitine carrier; Mitochondrial carrier; Metabolite transport; Ornithine carrier; Oxoglutarate carrier; Phosphate carrier (Palmieri, F. (1275) 127)

Tricarboxylate carrier; cDNA; Sequence; Mitochondrion (Iacobazzi, V. (1284) 9)

Citrate synthase
Creatine kinase; Mitochondrion; Muscle; Ragged red fiber; Human pathology (Bouzidi, M.F. (1316) 61)

Class I subtilase
Halobacterium; Archaea; Plasmid vector pMDS30; Signal sequence; (*Hf. volcanii*) (Kamekura, M. (1294) 159)

Class switch recombination
Illegitimate recombination; Double-strand break repair; Extrachromosomal DNA (Kameyama, K.-z. (1308) 263)

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Clk3
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Clofibric acid
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Clone 9 cell
Glucose transport; Thyroid hormone; Insulin; GLUT-1; Activation (Shetty, M. (1314) 140)

Cloning
Phosphoserine aminotransferase; Aspartate aminotransferase; Purification; Sequencing; Alkaliphile; (*B. circulans*) (Battchikova, N. (1295) 187)

Chitinases; Nucleotide sequence; (*Aeromonas* sp.) (Shiro, M. (1305) 44)

5α-Reductase; Steroidogenesis; Expression; Intracrinology; (Rat) (Lopez-Solache, I. (1305) 139)

CDC47; MCM family; cDNA; (Human) (Kiyono, T. (1307) 31)

Dihydropyrimidinase; Sequencing; (Rat) (Matsuda, K. (1307) 140)

Cysteine sulfinate decarboxylase; Taurine; cDNA; Sequence (Reymond, I. (1307) 152)

ATP-citrate lyase gene; Exon-intron organization (Moon, Y.-A. (1307) 280)

PTH/PTHrP receptor; Porcine; Characterization (Smith, D.P. (1307) 339)

Sequence analysis; Dopamine receptor D_{1c}; (Hypothalamus); (*O. mossambicus*) (Lamers, A.E. (1308) 17)

Cytidine deaminase; Gene expression; 1α,25-Dihydroxyvitamin D_3 (Watanabe, S.-I. (1312) 99)

Clusterin
C1q; AMP; Affinity chromatography; ELISA; Immune complex (Roeth, P.J. (1297) 159)

Clusterin expression
Apolipoprotein J; Sulfated glycoprotein-2; Testosterone-repressed prostate message-2; Apoptosis; Serum deprivation-induced cell death (Fratelli, M. (1311) 71)

pCMBS
Urea transporter; Thiourea; Phloretin; Brain; (*Xenopus* oocyte) (Couriaud, C. (1309) 197)

CNPase
2′,3′-Cyclic nucleotide phosphodiesterase; Cyclic nucleotide; (*Artemia*) (Díaz, A.R. (1290) 135)

Coagulation
Factor XII; Contact phase; Intrinsic blood coagulation; (Porcine blood) (Mashiko, H. (1296) 198)

CoA-independent transacylase
Arachidonic acid; Neutrophil; Lysophospholipid; Platelet activating factor (Nixon, A.B. (1300) 187)

Coated vesicle
Adenosine A_1 receptor; Desensitization; Internalization; Phenylisopropyl adenosine; Rat brain; Adenylyl cyclase (Ruiz, A. (1310) 168)

3-ketoacyl-CoA thiolase
Disorder; Peroxisome; Rhizomelic form of chondrodysplasia punctata; Fibroblast (Motley, A.M. (1315) 153)

Cobalamin
Cow milk; Isolation; Sequence; Transcobalamin (Fedosov, S.N. (1292) 113)

Co-crystallization of cytochrome bc_1–cytochrome *c* complex
Mitochondrial cytochrome bc_1 complex; Electron transport; Protein crystallization; Inhibitor complex (Yu, C.-A. (1275) 47)

Coeliac disease
Secalin; Immunoblotting; Rye; MALDI-TOF MS (Rocher, A. (1295) 13)

Coenzyme
Alginic acid; Polymerized NAD^+; Electron transfer (Nakamura, Y. (1289) 221)

Coenzyme binding
NAD^+ analogue; Photoaffinity labeling; Lactate dehydrogenase (Becker, S. (1293) 277)

Coenzyme Q
Vitamin K; γ-Carboxyglutamate; Vitamin K epoxide reductase; Carboxylase; Ubiquinone; Plastoquinone (Ronden, J.E. (1298) 87)

Cofactor
Amine oxidase; Topa quinone; Quinoprotein; (*A. niger*) (Frébort, I. (1295) 59)

Coiled-coil
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Colchicine
Calcitonin; Cytochalasin B; Monensin; Aluminum fluoride; Vesicular transport (Cremaschi, D. (1280) 27)

Retinol; Transthyretin; Microsome; (Rat); (Golgi) (Ritter, S.J. (1290) 157)

Cold adaptation
Chymotrypsin; Isozyme; N-terminal amino-acid sequence analysis; Mass spectrometry; Serine proteinase; (*G. morhua*) (Leth-Larsen, R. (1297) 49)

Trypsin; Antarctic fish; Three-dimensional structure; (*P. magellanica*) (Genicot, S. (1298) 45)

Cold denaturation
Proton exchange; Protein structure; Ribonuclease A (Nash, D. (1297) 40)

Cold survival
Posttranslational processing; Protein secretion; Thermal hysteresis; (*H. americanus*) (Duncker, B.P. (1292) 312)

Collagen
Liposome; Collagen-coated liposome; Stability; Half-life; Tissue distribution; Liposome–protein interaction (Fonseca, M.J. (1279) 259)

Pyridinium cross-link; Growth plate; Cartilage; Chondrocyte; Dyschondroplasia; (Tibia); (Chick) (Farquharson, C. (1290) 250)

Dimethylnitrosamine; Hepatic fibrosis; Fibrosis; Liver collagen; Fibril formation (George, J. (1292) 215)

Cleavage site; Gelatin; Gelatinase; Kinetics; Peptide (Xia, T. (1293) 259)

cis Isomer; *trans* Isomer; Monoenoic fatty acid; Platelet; Aggregation; Thromboxane; Thrombin; (Porcine) (Wahle, K.W.J. (1301) 141)

Extracellular matrix; FTIR spectroscopy; Heart failure; Myocardial infarction; Near infrared spectroscopy (Liu, K.-Z. (1315) 73)

Fibrosis; Bleomycin; Collagen cross-linking; Hydroxylysine (Gerriets, J.E. (1316) 121)

Collagenase
Matrix metalloproteinase; TIMP; Arthritis; T cell (Cawston, T.E. (1314) 226)

Collagen-coated liposome
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Collagen conformation
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Collagen cross-linking
Collagen; Fibrosis; Bleomycin; Hydroxylysine (Gerriets, J.E. (1316) 121)

Collagen IV
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Collagen metabolism
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Collagen production inhibition
Collagen conformation; *S*-2-Aminoethylcysteine; Procollagen; Lysine analogue; Collagen synthesis (Christner, P. (1294) 37)

Collagen synthesis
Collagen conformation; *S*-2-Aminoethylcysteine; Procollagen; Lysine analogue; Collagen production inhibition (Christner, P. (1294) 37)

Articular chondrocytes; Type II transglutaminase; Differentiation; Cell growth; Adhesion (Borge, L. (1312) 117)

Collagen type I
Protein–salt interactions; Thermal stability; DSC; Protein electrostatics; Hofmeister effect; (Calf skin) (Komsa-Penkova, R. (1297) 171)

Collecting duct
Calcium ion; Hybridization, in situ; Immunohistochemistry; Tamm-Horsfall protein; Kidney; (*Cricetomys gambianus*); (African giant rat) (Moutairou, K. (1313) 187)

Colon adenocarcinoma
Calcium-binding protein; Calretinin; Adenocarcinoma; HT-29; Differentiation (Cargnello, R. (1313) 201)

Colon cancer
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Common deletion
In situ hybridization; Digoxigenin; Mitochondrial DNA (Nakamura, N. (1308) 215)

Comparative molecular field analysis
Lipase; 2-Arylpropionic ester; Substrate specificity; (*C. rugosa*) (Botta, M. (1296) 121)

Competitive inhibition
Phospholipase C; Vanadate; NMR, ^{51}V-; Surface binding (Tan, C.A. (1298) 58)

Complement
Drug targeting; Membrane lysis (Muzykantov, V.R. (1279) 137)

Liposome; Hemoglobin; Natural anti-phospholipid antibody; Antibody (Szebeni, J. (1285) 127)

Alternative pathway; Factor J; Factor D; Serine proteinase (González-Rubio, C. (1295) 174)

Immune complex, insoluble; Ovalbumin; IgG (Gorgani, N.N. (1317) 45)

Complementary chromatic adaptation
Heterotrophic growth; Glucose-6-phosphate dehydrogenase; ATPase, F_0F_1-; Fructose-1,6-bisphosphatase; Phycobilin; Thioredoxin (Austin, P.A. (1277) 141)

Complex I
NAD(P)-reducing hydrogenase; NAD(P)H dehydrogenase; Iron-sulfur cluster; Cyanobacterium; (*Synechocystis*) (Appel, J. (1298) 141)

Complex II
Fumarate reductase; Cytochrome *b*; cDNA; (*Ascaris suum*) (Saruta, F. (1276) 1)

Compound III
Catalase; Sodium azide; Enzyme inactivation; (Bovine liver) (Lardinois, O.M. (1298) 180)

Computer modeling
Δ6-Desaturase; Fatty acid desaturation; Linoleic acid; Enzyme kinetics; Acyl-CoA synthetase; Lysophospholipid acyltransferase (Ivanetich, K.M. (1292) 120)

Concanavalin A
Synaptosome; Plasma membrane; Ca^{2+}/Mg^{2+} ecto-ATPase; Extracellular ATP (Martín-Romero, F.J. (1283) 51)

Concentration
RalA; RalB; Ras-related GTP-binding protein; Platelet; Subcellular distribution; Isoprenylation (Jilkina, O. (1314) 157)

Conduction channel
Valinomycin; Ultrathin lipid membrane; Bolaform archaeal lipid; Permeation (Gliozzi, A. (1283) 1)

Conductivity
Blood; Rouleaux formation; Dielectric constant; Erythrocyte; (Human) (Irimajiri, A. (1290) 207)

Confocal laser scanning microscopy
Liposome; Phospholipid; Dermal penetration; Resonance energy transfer; (Stratum corneum) (Kirjavainen, M. (1304) 179)

Protein kinase C; Distribution dynamics; Phorbol myristate acetate; (Madin Darby canine kidney cell) (Godson, C. (1313) 63)

Conformation
Sodium ion channel; Model peptide; Circular dichroism (Helluin, O. (1279) 1)

Equinatoxin II; Toxin; A pore forming protein; Fluorescence measurements; Protein denaturation (Malavašič, M. (1280) 65)

Conformational change
Membrane transport; Mutant; Calcium-transporting ATPase; Uncoupling; Energy transduction (Andersen, J.P. (1275) 118)

ATPase, Na^+/K^+-; Reaction sequence; Kinetics; Ion transport (Pratap, P.R. (1285) 203)

RNase A; Active site; Denaturation; Pyridoxal 5'-phosphate; Fluorescence lifetime; Polarization; (Bovine pancreas) (Xiao, G.-S. (1294) 1)

Myoglobin; Solvent effect; Glycerol; Small-angle scattering X-ray analysis; Circular dichroism; (Horse heart) (Barteri, M. (1295) 51)

Troponin C; Fluorescence; Quenching; (Heart) (Dong, W.-J. (1295) 139)

Alkaline phosphatase; Phosphorescence emission; Cytochrome *c*; CD and optical spectrum (Dadák, V. (1297) 69)

LDL; HDL; Phospholipase A_2; Spin label; Molecular packing (Gorshkova, I.N. (1300) 103)

Annexin VI; Membrane binding; Calcium; Crystallography; Molecular replacement; (Bovine liver) (Kawasaki, H. (1313) 277)

Conformational coupling
ATP synthase; Proton flow; Bioenergetics (Fritsche, O. (1274) 94)

Conformational transition
eIF-(iso)4F; pH dependence; Ligand binding; Circular dichroism (Wang, Y. (1297) 207)

Conformation regulation
Calmodulin binding protein; Calpain, μ- and *m*-; Calponin; Caldesmon; Substrate recognition (Croall, D.E. (1298) 276)

Conjugated diene
Aminophospholipid·MDA; Cataract; Hydrogen peroxide; Lipid peroxide; Malondialdehyde; Oxidative stress; (Lens cellular membrane) (Bhuyan, D.K. (1285) 21)

Unsaturated fatty acid; Cytokine; Endothelial cell; Antioxidant; Antioxidant enzyme; (Human) (Crosby, A.J. (1303) 187)

Connexin43
Pervanadate; Diperoxovanadate; Gap junctional intercellular communication; Phosphotyrosine; Protein-tyrosine phosphatase inhibitor (Mikalsen, S.-O. (1290) 308)

Consensus pattern
Amidase; Phylogenic tree (Chebrou, H. (1298) 285)

Consensus sequence
DNA damage; DNA alkylation; DNA intercalation; Alphoid DNA; Plasmid pUC8 (Murray, V. (1305) 79)

Constitutive secretion
Endometrium; Gastrin-releasing peptide; Bombesin; Pregnancy; (Sheep) (Giraud, A. (1296) 189)

Regulated secretion; Basal secretion; Gastrin; Progastrin (Varro, A. (1313) 101)

Contact phase
Factor XII; Intrinsic blood coagulation; Coagulation; (Porcine blood) (Mashiko, H. (1296) 198)

Contamination
Factor H; Thrombospondin; Heparin affinity; Glycoprotein (Carron, J.A. (1289) 305)

Continuous culture
Carbon metabolism; Hexose uptake (Meijer, M.M.C. (1277) 209)

Control analysis
Calvin cycle (Pettersson, G. (1289) 169)

Controlled release
Drug delivery; Electron microscopy; Interlipidic particle; Light-triggerable liposome; Liposome; Photodynamic therapy; Photooxidation; Plasmalogen (Thompson, D.H. (1279) 25)

Convergent evolution
Hemoglobin; Myoglobin; Indoleamine dioxygenase; Gene structure; (*Sulculus diversicolor*) (Suzuki, T. (1308) 41)

Convex constraint analysis
HDL; NMR, 2-dimensional; Distance geometry; Amphipathic helix; pH effect (Wang, G. (1301) 174)

Cooperative binding
VL30; Enhancer; CREB/JUN (Pribnow, D. (1307) 55)

Cooperativity
P-glycoprotein; Modulator interaction; Interaction, competitive; Interaction, non-competitive; Multidrug resistance (Ayesh, S. (1316) 8)

Cooperativity index
Lipid activation; Inhibitor, lipophilic; Boundary lipid; ATPase, Na^+/K^+-; Lactose permease (Sandermann Jr., H. (1300) 219)

5-Coordinate
Cytochrome oxidase; Optical spectrum; High spin (Liao, G.-L. (1274) 109)

Copper
Metallothionein; Luminescence; Liver; (LEC rat) (Nakayama, K. (1289) 150)

3,4-Dihydroxyphenylacetic acid; 3,4-Dihydroxybenzyl alcohol; 3,4-Dihydroxybenzaldehyde; Oxidative decarboxylation; Manganese (Mefford, I.N. (1290) 224)

Iron loading; Iron deficiency; Fe; ^{64}Cu-uptake; Neonatal tissue development; (Rat) (Crowe, A. (1291) 53)

Ceruloplasmin; Gene expression; Immune cell; Lymphocyte (Pan, Y. (1307) 233)

Copper binding constant
Copper dissociation rate constant; Transferrin; Influence of anions; (Human serum) (Hirose, J. (1296) 103)

Copper-containing enzyme
Coproporphyrinogen oxidase; Site-directed mutagenesis (Kohno, H. (1292) 156)

Copper dissociation rate constant
Copper binding constant; Transferrin; Influence of anions; (Human serum) (Hirose, J. (1296) 103)

Copper ion
Estradiol 17β; Equine estrogen; Cardioprotection (Tang, M. (1299) 155)

Copper oxidation
Cholesterol oxidation; Oxygen isotope; Soybean lipoxygenase; Mass spectrometry (Breuer, O. (1302) 145)

Copper protein, type 1
Amicyanin; Cytochrome c_{550}; Inter-protein cross-reaction; Metalloprotein (redox) kinetics; MADH electron-transport chain; (*T. versutus*) (Kyritsis, P. (1295) 245)

Coproporphyrinogen oxidase
Copper-containing enzyme; Site-directed mutagenesis (Kohno, H. (1292) 156)

Core complex
Photosystem II; Difference spectroscopy; Chloride depletion; Proton release; Electron transfer; Histidine oxidation (Haumann, M. (1273) 237)

Core expansion
Chylomicron; Catabolism; Transport of fat; Assembly; Apolipoprotein B; Space of Disse; (Liver, Intestine, Plasma) (Hussain, M.M. (1300) 151)

Cornea
Endothelium; Bicarbonate; Amiloride; Acetazolamide; Fluid flow (Wigham, C.G. (1279) 104)

Corneal protein
Keratan sulfate proteoglycan; Fluorescence spectroscopy; Red-edge excitation shift (Uma, L. (1294) 8)

Corn root
ATPase, H^+-; pH; Plasma membrane; Magnesium ion activation; (*Zea mays* L.) (Costa, M.S. (1279) 214)

Correlation
Nonlinear regression; Progress curve; Substrate inhibition; Integrated rate equation (Schiller, M.R. (1297) 17)

Cortical cytoskeleton
Binding protein, Ca^{2+}/membrane; Secretion, Ca^{2+} regulated; Endocytosis; Protein–protein interaction (Jost, M. (1313) 283)

Corticotropin releasing hormone receptor
Corticotropin releasing hormone; Proopiomelanocortin; Hair growth; (C57BL/6 mouse) (Slominski, A. (1289) 247)

Corticotropin releasing hormone
Corticotropin releasing hormone receptor; Proopiomelanocortin; Hair growth; (C57BL/6 mouse) (Slominski, A. (1289) 247)

Cortisol
Liver plasma membrane; Cortisol binding protein; Solubilization; Purification (Ibarrola, I. (1284) 41)

Cortisol binding protein
Cortisol; Liver plasma membrane; Solubilization; Purification (Ibarrola, I. (1284) 41)

Cosolvent effect
Enzyme inactivation; Temperature; High performance size exclusion chromatography (Jensen, W.A. (1296) 23)

Cosubstrate
Prostaglandin H synthase; Oxidation; Arachidonic acid; Leuco-dichlorofluorescein (Larsen, L.N. (1299) 47)

Cotranscription
GTPase; Gene *50K*; Amino acid sequence; Reverse transcription-polymerase chain reaction; (*Synechocystis* sp. PCC 6803) (Geisler, M. (1309) 189)

Cotranslational import
ATP:AMP phosphotransferase; Protein *N*-acetylation; N-terminal processing; Two-dimensional gel electrophoresis; Mitochondrion; (*S. cerevisiae*) (Klier, H. (1280) 251)

Cotransport
Lepidopteran larva; Transporter (Liu, Z. (1282) 25)

Lysine:K^+ symport; Arginine; Tobacco hornworm (Liu, Z. (1282) 32)

Cotransporter, $Na^+/K^+/Cl^-$
Ehrlich tumor cell; Chloride accumulation; Sodium ion transport; Potassium ion transport; Chloride ion transport (Thomas-Young, R.J. (1280) 231)

Potassium ion transport; Insulin receptor; Fibroblast; Insulin; ATPase, Na^+/K^+-; (Human) (Longo, N. (1281) 38)

Counteracting solute
Betaine analogue; Osmoprotection; (*E. coli*) (Randall, K. (1291) 189)

Counterion effect
Cationic lipid; Liposome; Transfection; Gene transfer; DNA (Aberle, A.M. (1299) 281)

Covalent coupling
Catalase; Polysialic acid; Protein delivery (Fernandes, A.I. (1293) 90)

Liposome; Tetanus toxoid; Immunoglobulin G; Microfluidization; Freeze-fracture electron microscopy (Skalko, N. (1301) 249)

Covalent modification
Glyceraldehyde-3-phosphate dehydrogenase; Hibernation; Enzyme isoform; Chromatofocusing; (*J. orientalis*) (Soukri, A. (1292) 177)

Cow milk
Cobalamin; Isolation; Sequence; Transcobalamin (Fedosov, S.N. (1292) 113)

***coxD* gene**
Cytochrome *c* oxidase; Heme O synthase; (*Synechocystis* sp. PCC 6803) (Malakhov, M. (1273) 84)

***cox1* gene**
Plant mitochondrion; RNA editing (Sper-Whitis, G.L. (1307) 301)

CP10
MRP8; Calgranulin A; S100 protein; Myeloid cell; (Mouse) (Nacken, W. (1315) 1)

CPMAS NMR
Crosslinking; Peptidoglycan; Cephalothin; Cell wall; (*B. subtilis*) (Shenouda, N.S. (1289) 217)

C1q
Clusterin; AMP; Affinity chromatography; ELISA; Immune complex (Roeth, P.J. (1297) 159)

CR1
Repetitive element; Non-LTR retrotransposon; Avidin gene family; (Chicken (*Gallus gallus*)) (Wallén, M.J. (1308) 193)

Crassulacean acid metabolism
Expression; ATPase, H^+-; Salt stress; Subunit E; Tonoplast; Vacuole; (*M. crystallinum*); (Tissue) (Dietz, K.-J. (1281) 134)

Creatine
Guanidino propionic acid; Mitochondrial inclusion body; Creatine kinase; Adenine nucleotide translocator; Metabolism; Oxidative phosphorylation; (Rat) (O'Gorman, E. (1276) 161)

Creatine analogue
Creatine kinase; Creatine-stimulated respiration; Mitochondrion; Nuclear magnetic resonance; Porcine carotid artery (Boehm, E.A. (1274) 119)

Creatine kinase
NMR, P-31; Saturation transfer; Mitochondrion; Enzyme kinetics; Energy metabolism (Van Dorsten, F.A. (1274) 59)

Metabolic regulation; Oxidative phosphorylation; Muscle contraction; Skeletal muscle; (Heart) (Saks, V.A. (1274) 81)

Creatine analogue; Creatine-stimulated respiration; Mitochondrion; Nuclear magnetic resonance; Porcine carotid artery (Boehm, E.A. (1274) 119)

Guanidino propionic acid; Creatine; Mitochondrial inclusion body; Adenine nucleotide translocator; Metabolism; Oxidative phosphorylation; (Rat) (O'Gorman, E. (1276) 161)

Citrate synthase; Mitochondrion; Muscle; Ragged red fiber; Human pathology (Bouzidi, M.F. (1316) 61)

Creatine phosphate
Adenosine triphosphate; NMR visibility; Cytosolic concentration; Heart; Phosphorylation ratio (Williams, J.P. (1276) 71)

Creatine-stimulated respiration
Creatine kinase; Creatine analogue; Mitochondrion; Nuclear magnetic resonance; Porcine carotid artery (Boehm, E.A. (1274) 119)

CREB/JUN
VL30; Enhancer; Cooperative binding (Pribnow, D. (1307) 55)

Critical illness
Zymosan; Skeletal muscle; Energy metabolism; High energy phosphate; Tricarboxylic acid cycle (Rooyackers, O.E. (1315) 55)

Cross-link
Pentose; Nonenzymatic glycation (Graham, L. (1297) 9)

Crosslinking
Peptidoglycan; CPMAS NMR; Cephalothin; Cell wall; (*B. subtilis*) (Shenouda, N.S. (1289) 217)

Erythrocyte; Band 3 (Jordán, J.A. (1291) 27)

Cross-linking
Troponin; Calcium; (Muscle) (Kobayashi, T. (1294) 25)

Cross-linking reagent
Oxoglutarate carrier; Disulfide bridge; Dimeric structure; Mitochondrion (Bisaccia, F. (1292) 281)

Cross-relaxation time
Mouse lens; NMR; Soft contact lens; Spin diffusion; Water-macromolecular interactions (Kuwata, K. (1289) 369)

Cross-talk
Prostanoid receptor; Protein kinase C; Calcium ion, intracellular; cyclic AMP; Megakaryocyte (Watanabe, T. (1304) 161)

Crustacea
Calcium-binding protein; Calcium metabolism; Mineralization; Organic matrix; (*O. cavimana*) (Luquet, G. (1293) 272)

Cryoprotectant
Photosystem II; Hydrogen bond; LHC II; Charge separation (Vasil'ev, S. (1276) 35)

Cryoprotectant toxicity
Erythrocyte; Hemolysis; Polyol; Cell shape; Dielectric constant; Partition coefficient (Bakaltcheva, I.B. (1280) 73)

Crystal
Photosystem I; Photosynthesis; X-ray structure; Photosystem II; Evolution (Fromme, P. (1275) 76)

Crystallin
Eye; Gene expression; Lens; Transgenic mouse (Sax, C.M. (1305) 49)

α-Crystallin
Aspirin; Chaperone; Glycation; Malate dehydrogenase (Heath, M.M. (1315) 176)

δ-Crystallin
Enzyme activity; Enzyme-crystallin; Argininosuccinate lyase; (Duck embryo); (Eye); (Lens) (Piatigorsky, J. (1295) 158)

Crystallinity
Carbonic anhydrase; Carbonate; Crystal nucleation; Isoenzyme; Enamel development; Mineralization (Kakei, M. (1289) 226)

Crystallography
Annexin VI; Membrane binding; Calcium; Conformational change; Molecular replacement; (Bovine liver) (Kawasaki, H. (1313) 277)

Crystal nucleation
Carbonic anhydrase; Carbonate; Isoenzyme; Crystallinity; Enamel development; Mineralization (Kakei, M. (1289) 226)

M-CSF
Tumor necrosis factor-α; Mesangial cell; Monocyte; Protein kinase; Signal transduction (Kamanna, V.S. (1313) 161)

C-terminal propeptide
Type I collagen; Osteoblast; Cell attachment (Mizuno, M. (1310) 97)

C-terminus engineering
Luciferase; Protein kinase; Bioluminescence; Peptide; Proteinase (Waud, J.P. (1292) 89)

Cubic phase
Alamethicin; Lipid–protein interaction (Keller, S.L. (1278) 241)

Hemoglobin; Encapsulation; Drug delivery; Monoolein; Lipid (Leslie, S.B. (1285) 246)

Cultured cell
Choline kinase; Epidermal growth factor; Glycerophosphate acyltransferase; Insulin; Phospholipid; (Human) (Uchida, T. (1304) 89)

Selenium; Selenoprotein P; Glutathione peroxidase (Hill, K.E. (1313) 29)

Current–voltage relationship
ATPase, Na^+/K^+-; ATPase, H^+/K-; Patch clamp; Proton transport; (*Xenopus* oocyte) (Rettinger, J. (1282) 207)

Cuticle
Nematode; Freeze-fracture; Non-bilayer structure; Hexagonal II phase; (*T. spiralis*) (Gounaris, K. (1281) 91)

S100A3; Calcium-binding protein; Hair (Kizawa, K. (1312) 94)

Cutting
Plasma membrane; ATPase, H^+-; Transcription; Aging; (Plant); (Sugar beet) (Noubhani, A.M. (1281) 213)

^{64}Cu-uptake
Iron loading; Iron deficiency; Fe; Copper; Neonatal tissue development; (Rat) (Crowe, A. (1291) 53)

Cwp2p
Cell wall protein; GPI-anchor; β-1,6-Glucan; (Yeast) (Van der Vaart, J.M. (1291) 206)

Cyanide
Hydroperoxidase II; Heme d; Catalase; Ligand binding kinetics; (*E. coli*); (Bovine liver) (Maj, M. (1298) 241)

Cyanobacterium
Active oxygen; Lumazine; Near-UV; Pro-oxidant (Shibata, H. (1274) 129)

Cytochrome oxidase; Plasma membrane; Thylakoid membrane; Respiration (Peschek, G.A. (1275) 27)

Deuterated biomass; Lipid composition; NMR, solid state, ^{2}H- and ^{31}P-; FAB-MS; GC-MS; LSIMS; (*S. maxima*) (Tropis, M. (1284) 196)

Heat shock protein; *groEL* gene; Thermophile; GroEL protein; Chaperonin (Furuki, M. (1294) 106)

NAD(P)-reducing hydrogenase; NAD(P)H dehydrogenase; Complex I; Iron-sulfur cluster; (*Synechocystis*) (Appel, J. (1298) 141)

Fatty acid desaturation; Mutation site; Protein composition; Lipid composition (Gombos, Z. (1299) 117)

Nitrate reductase; Molybdoenzyme; *narB* gene; (*O. chalybea*) (Unthan, M. (1305) 19)

Nitrogen fixation mutant YC16; Repetitive DNA; Novel repeated DNA element; Prokaryote; (*Anabaena* sp. PCC 7120) (Masepohl, B. (1307) 26)

L-Amino acid oxidase; *aox*A-gene; L-Arginine metabolism; (*Synechococcus* PCC 6301/7942) (Bockholt, R. (1307) 111)

Cyanoglobin, recombinant
Hemoglobin, prokaryotic; Characterization; Spectroscopy; Structural analysis; (*N. commune* UTEX 584) (Thorsteinsson, M.V. (1292) 133)

Cycad
β-Glucosidase; Azoxyglycoside; Cycasin; Transglucosylation (Yagi, F. (1289) 315)

Cycasin
β-Glucosidase; Cycad; Azoxyglycoside; Transglucosylation (Yagi, F. (1289) 315)

Cyclic nucleotide
2′,3′-Cyclic nucleotide phosphodiesterase; CNPase; (*Artemia*) (Díaz, A.R. (1290) 135)

2′,3′-Cyclic nucleotide phosphodiesterase
CNPase; Cyclic nucleotide; (*Artemia*) (Díaz, A.R. (1290) 135)

Cyclic variation
Homoserine, unsaturated; Diacylglycerol-*N,N,N*-trimethylhomoserine; Lipid characterization; Phosphatidylcholine; Electrospray mass spectrometry; (Marine alga) (Haigh, W.G. (1299) 183)

Cyclin H
Protein kinase C; CDK-activating kinase; CDK7; CDK2; Cell cycle (Hamada, K. (1310) 149)

Cyclobutane pyrimidine dimer
N-glycosylase; Endonuclease V; Protein–DNA interaction; Tetrahydrofuran (Atkins Latham, K. (1292) 324)

Cyclodextrin
Lipid depletion; Thylakoid membrane (Rawyler, A. (1278) 89)

Liposome; Dehydroepiandrosterone; Retinol; Dexamethasone; Drug delivery (McCormack, B. (1291) 237)

Cycloheximide
Testosterone-repressed prostate message-2; Alternative splicing; Heat shock (Kimura, K. (1307) 83)

Cyclooxygenase
Arachidonic acid; Prostaglandin; Cytochrome *P*-450; Lipoxygenase (Rosolowsky, M. (1299) 267)

Cyclooxygenase-2
Prostaglandin; Phospholipase A_2; Phospholipase A_2 inhibitor (Schaefers, H.J. (1300) 197)

α-Tocopherol; Macrophage; Prostaglandin E_2; Lipopolysaccharide; Vitamin E; (Rat peritoneal macrophage) (Sakamoto, W. (1304) 139)

Interleukin-1; Interleukin-4; Interferon; Prostaglandin E_2; WISH cell (Harding, L. (1310) 48)

Cyclooxygenase
Pancreatic islet; Insulin release; Prostaglandin; Eicosanoid; GTP-binding protein; Interleukin (Sjöholm, Å. (1313) 106)

Cyclophilin
Endoplasmic reticulum; Retention signal; Secretion; Human milk (Mariller, C. (1293) 31)

Cyclosporin cell death
Mitochondrion channel (Bernardi, P. (1275) 5)

Cyclosporine
Neurotoxicity; NMR; Glial cell culture; Neuronal cell culture; Tacrolimus (FK506) (Serkova, N. (1314) 93)

***CYP2B1* gene**
Promoter sequence; Sequence comparison; Phenobarbital; (Rat) (Shaw, P.M. (1305) 54)

Cyp2e-1
Hepatocyte culture; Glucocorticoid hormone; Sex hormone (Sakurai, J. (1313) 35)

Cysteine
Assembly; psbO; Site-directed mutagenesis; Size-exclusion chromatography; Protein, 33 kDa (Betts, S.D. (1274) 135)

Cysteine biosynthesis
Assimilatory sulfite reduction; Hydrogen-sulfide:ferredoxin oxidoreductase; cDNA; Sequence homology; Chloroplast isoform; (*A. thaliana*) (Brühl, A. (1295) 119)

Cysteine proteinase
Serine proteinase; Inhibitor; Hydroxamate; (Mechanism) (Demuth, H.-U. (1295) 179)

Calpain; Calcium; cDNA cloning; Intracellular proteinase; Proteinase (Sorimachi, H. (1309) 37)

Cysteine sulfinate decarboxylase
Taurine; cDNA; Cloning; Sequence (Reymond, I. (1307) 152)

Cystic fibrosis
Diacylglycerol; Methoxamine; Signal transduction (Kester, M. (1302) 264)

Cystic fibrosis transmembrane conductance regulator
Yeast; Expression; Initiation codons; Chloride ion channel (Huang, P. (1281) 80)

Cytidine deaminase
Cloning; Gene expression; 1α,25-Dihydroxyvitamin D_3 (Watanabe, S.-I. (1312) 99)

Cytochalasin B
Calcitonin; Colchicine; Monensin; Aluminum fluoride; Vesicular transport (Cremaschi, D. (1280) 27)

Glucose transport; 3-[^{125}I]Iodo-4-azidophenetylamido-7-O-succinyldeacetyl-forskolin; Insulin-regulated glucose transporter GLUT4 (Wandel, S. (1284) 56)

Occlusion; Membrane vesicle; n-Octyl glucoside; Bumetanide; $Na^+/K^+/2Cl^-$ cotransport (Krarup, T. (1284) 97)

Liposome; Fusion; Jurkat cell; Diphtheria toxin fragment A; Poly(ethylene oxide)-bearing lipid (Higashi, N. (1285) 183)

Cytochrome
Alkaliphile; Succinate dehydrogenase (Gilmour, R. (1276) 57)

Aging; Mitochondrial respiration; Respiratory chain; Ubiquinol cytochrome *c* reductase; Cytochrome *c* oxidase (Boffoli, D. (1315) 66)

Cytochrome *b*
Complex II; Fumarate reductase; cDNA; (*Ascaris suum*) (Saruta, F. (1276) 1)

Mitochondrial disease; Ubiquinol cytochrome *c* reductase; Human pathology; Antimycin A; Myxothiazol (Bouzidi, M.F. (1317) 199)

Cytochrome *b*-559
Photosystem II; Water oxidation (Hulsebosch, R.J. (1277) 103)

Cytochrome b_5
Liposome; Cholesterol (Taylor, K.M.P. (1278) 35)

Cytochrome bc_1
Cytochrome c_1; EPR; Magnetic circular dichroism; Mitochondrion; Photosynthetic bacterium (Finnegan, M.G. (1274) 9)

Cytochrome bc_1 complex
Ubiquinone; Q-cycle; Charge-transfer mechanism; Deprotonation (Brandt, U. (1275) 41)

Histidine ligand; Q_P pocket; 'Rieske' iron-sulfur cluster; Iron-sulfur cluster; Stigmatellin binding (Link, T.A. (1275) 54)

Cytochrome *bf* complex
Cytochrome *f*; Rieske protein; Plastocyanin; Electron transfer; (Cyanobacterium) (Wagner, M.J. (1276) 246)

Cytochrome b_6f complex
PetM; Transit peptide; (*C. reinhardtii*) (Ketchner, S.L. (1273) 195)

Cytochrome *b* mutants
bc_1 complex; *Rhodobacter capsulatus*; *Saccharomyces cerevisiae*; Energy transduction; Photosynthesis and respiration (Brasseur, G. (1275) 61)

Cytochrome *c*
Membrane-associated *c*-type cytochrome; Photosynthetic bacterium; Trans expression; Electron transfer (Jenney Jr., F.E. (1273) 159)

Alkaliphile; ATP synthase; Sodium ion/proton antiporter; pH homeostasis; (*Bacillus*) (Krulwich, T.A. (1275) 21)

dmsCBA operon; Dimethylsulfoxide respiration; (*R. sphaeroides* f. sp. *denitrificans*) (Ujiiye, T. (1277) 1)

NMR, two-dimensional; Imidazole; Structure (Liu, G. (1277) 61)

Myoglobin; Denaturation; Protein stability; Ionic denaturant (Ahmad, Z. (1294) 63)

NMR, two-dimensional; Imidazole; (Horse) (Shao, W. (1295) 44)

Fe(II); Oxidation; Ultrasound (Barteri, M. (1296) 35)

Alkaline phosphatase; Phosphorescence emission; CD and optical spectrum; Conformational change (Dadák, V. (1297) 69)

Hemoprotein; Unfolding intermediate; Voltammetry; Circular dichroism (Ferri, T. (1298) 102)

Cytochrome *c′*
Nitric oxide; Photosynthetic bacterium; EPR; Absorption spectrum; Nitrosylheme (Yoshimura, T. (1292) 39)

Cytochrome c_1
Cytochrome bc_1; EPR; Magnetic circular dichroism; Mitochondrion; Photosynthetic bacterium (Finnegan, M.G. (1274) 9)

Cytochrome c_3
Molecular property; Biological activity; Perm selective membrane electrode; Redox potential; (*D. africanus*) (Pieulle, L. (1273) 51)

Electron transport protein; Multi-redox site; NMR, ^{1}H-; Interheme interaction; pH effect; (*D. vulgaris* Myazaki F) (Park, J.-S. (1293) 45)

Cytochrome c_{550}
Copper protein, type 1; Amicyanin; Inter-protein cross-reaction; Metalloprotein (redox) kinetics; MADH electron-transport chain; (*T. versutus*) (Kyritsis, P. (1295) 245)

Cytochrome cd_1
Denitrification; Cytochrome *c* oxidase; *S*-adenosyl-L-methionine-dependent uroporphyrinogen-III C-methyltransferase; LysR family; Short-chain alcohol dehydrogenase (Glockner, A.B. (1277) 6)

Cytochrome *c* oxidase
Heme O synthase; *coxD* gene; (*Synechocystis* sp. PCC 6803) (Malakhov, M. (1273) 84)

ctaBCDEF operon; DNA sequence; Protein sequence; Heme O synthesis; (*B. stearothermophilus*) (Kusano, T. (1273) 129)

Mitochondrion; (*Polytomella*); (*Chlamydomonas*); (Chlorophiceae) (Antaramian, A. (1273) 198)

Electron transfer; Proton transfer; Electrostatics (Rich, P.R. (1275) 91)

Heme/Cu terminal oxidase; Heterogeneity; Binuclear center (Moody, A.J. (1276) 6)

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Δ^6-Desaturase
Polyunsaturated fatty acid; Docosahexaenoic acid; Retroconversion; Δ^4-Desaturase; Human retinoblastoma; Human leukemia (Marzo, I. (1301) 263)

Δ^9-Desaturase
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Desaturase induction
Δ^9-Desaturase; Isothermal induction; Hepatocyte; Lipid vesicle; (Carp liver) (Macartney, A.I. (1302) 207)

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Desmin
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Detergent-protein complex
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Glucose metabolism; Regulatory enzyme; (Rat) (Hotta, K. (1289) 145)

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Diabetes, non-insulin-dependent
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Diabetic heart
Diabetic cardiomyopathy; Troponin I phosphorylation; Troponin I gene expression; Cardiac troponin I (Liu, X. (1316) 78)

Diacylglycerol
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Progesterone; Choline; Phospholipase D; Diacylglycerol kinase; Phosphatidate phosphohydrolase meiosis; (Oocyte, *Rana*) (Kostellow, A.B. (1304) 263)

Diacylglycerol kinase
Progesterone; Diacylglycerol; Choline; Phospholipase D; Phosphatidate phosphohydrolase meiosis; (Oocyte, *Rana*) (Kostellow, A.B. (1304) 263)

Diacylglycerol-*N,N,N*-trimethylhomoserine
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Diadenosine polyphosphate
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Diadinoxanthin
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Diafenthiuron
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4′,6-Diamidino-2-phenylindole
Nucleosome; Gene expression; DNA (Caneva, R. (1306) 117)

3,3′-Diaminobenzidine tetrahydrochloride
Cisplatin; Dithiothreitol; β-Mercaptoethanol (Chao, J.C. (1307) 213)

***cis*-Diamminedichloroplatinum(II)**
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Diaphragm sarcoplasmic reticulum
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Diarylsulfonylurea
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Diatoxanthin
Diadinoxanthin; Energy dissipation; Excited state; Optical spectroscopy; Xanthophyll cycle; (Femtosecond) (Frank, H.A. (1277) 243)

Diazepam-binding inhibitor
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Dibucaine
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5,6-Dichloro-1-β-D-ribofuranosyl-benzimidazole
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2,4-Dichlorophenoxyacetic acid
Agent orange; Membrane; Phospholipid bilayer (Suwalsky, M. (1285) 267)

Dideoxy sequencing
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Dielectric constant
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Dielectric relaxation
Photosynthesis; Electron transfer; Charge separation; Protein relaxation; Protein, dielectric (Krishtalik, L.I. (1273) 139)

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Carboxy terminal peptide; Chylomicron; Immunoassay; Immunoaffinity chromatography; Postprandial profile (Lovegrove, J.A. (1301) 221)

Dietary L-carnitine
Triacylglycerol; Ketone body; Carnitine palmitoyltransferase I; (Wistar rat) (Clouet, P. (1299) 191)

Dietary regulation
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Photosystem II; Core complex; Chloride depletion; Proton release; Electron transfer; Histidine oxidation (Haumann, M. (1273) 237)

Differential display
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Differential expression
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Differential mRNA display
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Phase transition; Phospholipid; Polymorphism; Membrane; Time-resolved X-ray diffraction; Scanning densitometry (Tenchov, B. (1285) 109)

Organic solvent; Ionic strength; Sorbitol; Thermostability; Water activity (Öste-Triantafyllou, A. (1295) 110)

Particle beam LC-MS; GC-MS; X-ray diffraction; Surface balance; Phase transition (Norberg, P. (1299) 80)

Differentiation
Stem cell; Pluripotency; Cell fate; Lineage; Plasticity (Green, J. (1288) R9)

Phospholipid; Mucin; Lectin; Glycosylation; Cytoprotection (Dohi, T. (1289) 71)

Cell type-specific expression; Promoter; *lac*Z (Tsang, A. (1309) 100)

1α,25-Dihydroxyvitamin D_3; Retinoic acid; HL60; Aldoketoreductase; Leukemia (Bunce, C.M. (1311) 189)

Articular chondrocytes; Type II transglutaminase; Collagen synthesis; Cell growth; Adhesion (Borge, L. (1312) 117)

Calcium-binding protein; Calretinin; Colon adenocarcinoma; Adenocarcinoma; HT-29 (Cargnello, R. (1313) 201)

HMG-CoA reductase inhibitor; Inhibitor; (Rat skeletal muscle cell); (Growth) (Veerkamp, J.H. (1315) 217)

***neu* Differentiation factor**
Bacterial expression and isolation; Disulfide structure; Peptide mapping; Deamidation and modification (Hara, S. (1292) 168)

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Digalactosyldiacylglycerol
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Digestion
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α-Amylase; Mass spectrometry; (Pancreas); (Rat) (Young, M.K. (1293) 63)

Digital image analysis
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Digoxigenin
In situ hybridization; Mitochondrial DNA; Common deletion (Nakamura, N. (1308) 215)

Dihydrofolate reductase gene
Transcription; Psoralen; Camptothecin; 5,6-Dichloro-1-β-D-ribofuranosyl-benzimidazole (Ljungman, M. (1307) 171)

Dihydrolipoyl transacylase
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Dihydropyridine
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Dihydropyrimidinase
Cloning; Sequencing; (Rat) (Matsuda, K. (1307) 140)

3,4-Dihydroxybenzaldehyde
3,4-Dihydroxyphenylacetic acid; 3,4-Dihydroxybenzyl alcohol; Oxidative decarboxylation; Copper; Manganese (Mefford, I.N. (1290) 224)

3,4-Dihydroxybenzyl alcohol
3,4-Dihydroxyphenylacetic acid; 3,4-Dihydroxybenzaldehyde; Oxidative decarboxylation; Copper; Manganese (Mefford, I.N. (1290) 224)

1,5-Dihydroxyisoquinoline
Poly(ADP-ribose) polymerase; Oxidative damage; (C3H10T1/2 cell) (Shah, G.M. (1312) 1)

3,4-Dihydroxyphenylacetic acid
3,4-Dihydroxybenzyl alcohol; 3,4-Dihydroxybenzaldehyde; Oxidative decarboxylation; Copper; Manganese (Mefford, I.N. (1290) 224)

1α,25-Dihydroxyvitamin D_3
Retinoic acid; HL60; Aldoketoreductase; Differentiation; Leukemia (Bunce, C.M. (1311) 189)

Cytidine deaminase; Cloning; Gene expression (Watanabe, S.-I. (1312) 99)

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DiI-LDL
LDL; DiI-acetyl-LDL; Fibroblast; Macrophage; Hypercholesterolemia, familial; Fluorescence; Cholesterol (Teupser, D. (1303) 193)

Diltiazem
Verapamil; Nifedipine; Ursodeoxycholic acid; Calcium antagonist; LDL metabolism; (Hamster hepatocyte) (Bouscarel, B. (1301) 230)

Dimer
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Dimeric hemoglobin
NMR; Heme cavity; Magnetic axes; Hyperfine shift; (*Scapharca inaequivalvis*) (Wu, Y. (1298) 261)

Dimeric structure
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Dimerization
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2-(4-Dimethylaminostyryl)-1-ethylpyridinium
DMP^+; Lipophilic cation; Efflux system; Energization; Envelope; (*E. coli*) (Sedgwick, E.G. (1278) 205)

Dimethylnitrosamine
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Dimethylsphingosine
Glycosphingolipid, lyso-; NMR, ^{2}H-; Ceramide; Bilayer (Rigby, A.C. (1284) 129)

Dimethylsulfoxide
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Dimethyl sulfoxide reductase
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Dimethylsulfoxide respiration
Cytochrome *c*; *dmsCBA* operon; (*R. sphaeroides* f. sp. *denitrificans*) (Ujiiye, T. (1277) 1)

Dimyristoylphosphatidylcholine
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Dinitrosyl iron complex
Iron complex; Nitric oxide; Vasodilation (Vanin, A.F. (1295) 5)

Dinophyceae
Peridinin; Peridinin-chlorophyll *a* protein; Amino acid sequence; Light harvesting; Transit sequence; (*Amphidinium carterae*) (Sharples, F.P. (1276) 117)

Dioleoylphosphatidylethanolamine
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Induction; Cytochrome *P*-450; (*Callithrix jacchus*); (Liver); (Lung) (Schulz, T.G. (1298) 131)

Aryl hydrocarbon receptor; Retinoic acid; Keratin; ARNT protein; Psoriasis (Wanner, R. (1317) 105)

Dioxygen
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Dipalmitoylphosphatidylcholine
Hydrophobic surfactant protein; Phospholipid domain; Pulmonary surfactant (Creuwels, L.A.J.M. (1285) 1)

Dipeptide repeat
Nucleotide sequence; Procyclin; Brain; Muscle (Geertman, R. (1306) 147)

Dipeptidyl peptidase II
Seminal plasma; Purification; Characterization; Amino acid sequence (Huang, K. (1290) 149)

Pro-X carboxypeptidase (Rawlings, N.D. (1298) 1)

Dipeptidyl peptidase IV
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Diphtheria toxin fragment A
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Distal tubule
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Distal water/hydroxide
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Distance geometry
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Distance mapping
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Distinct protein
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Distribution
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Gliostatin; Enzyme immunoassay; Platelet-derived endothelial cell growth factor; Expression; Reverse transcription polymerase chain reaction (Matsukawa, K. (1314) 71)

Distribution dynamics
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Disulfide bridge
Oxoglutarate carrier; Cross-linking reagent; Dimeric structure; Mitochondrion (Bisaccia, F. (1292) 281)

Disulfide reduction
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FTIR; Recombinant human granulocyte-macrophage colony-stimulating factor; Thermal denaturation; β-Aggregation (Jiang, H. (1294) 121)

Disulfide structure
neu Differentiation factor; Bacterial expression and isolation; Peptide mapping; Deamidation and modification (Hara, S. (1292) 168)

Dithiocarbamate
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Dithionite
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Dithiothreitol
Cisplatin; 3,3′-Diaminobenzidine tetrahydrochloride; β-Mercaptoethanol (Chao, J.C. (1307) 213)

DMP $^+$
2-(4-Dimethylaminostyryl)-1-ethylpyridinium; Lipophilic cation; Efflux system; Energization; Envelope; (*E. coli*) (Sedgwick, E.G. (1278) 205)

DNA
Counterion effect; Cationic lipid; Liposome; Transfection; Gene transfer (Aberle, A.M. (1299) 281)

Histone gene; Gene sequence; (Mouse) (Brown, V.D. (1306) 17)

Nucleosome; 4′,6-Diamidino-2-phenylindole; Gene expression (Caneva, R. (1306) 117)

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$G_{\alpha q}$ protein; Gene expression; Nucleotide sequence; Tissue distribution; (Human) (Chen, B. (1281) 125)

Tricarboxylate carrier; Citrate carrier; Sequence; Mitochondrion (Iacobazzi, V. (1284) 9)

Molecular cloning; Human umbilical endothelial cell (Yoshimoto, M. (1293) 83)

Cysteine biosynthesis; Assimilatory sulfite reduction; Hydrogen-sulfide:ferredoxin oxidoreductase; Sequence homology; Chloroplast isoform; (*A. thaliana*) (Brühl, A. (1295) 119)

Acetylated N-terminus; Amino acid sequence; Protein Z; (*Hordeum vulgare*) (Rasmussen, S.K. (1297) 127)

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Molecular cloning; Nucleotide sequence; SOX; (*Xenopus laevis*) (Komatsu, N. (1305) 117)

WD repeat protein; Nuclear protein family; Murine cDNA; Transcriptional regulator (Scamps, C. (1306) 5)

α_1-Microglobulin; Bikunin; Amino acid sequence; Sequence comparison (Lindqvist, A. (1306) 98)

CDC47; MCM family; Cloning; (Human) (Kiyono, T. (1307) 31)

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Purinergic receptor; Amino acid sequence; Human bladder (Longhurst, P.A. (1308) 185)

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Intranuclear matrix protein; Sequence analysis; Molecular cloning (Menz, K. (1309) 14)

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S100 protein family; Gene; Trinucleotide repeat (Zimmer, D.B. (1313) 229)

H-DNA
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mtDNA
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DNA-binding protein
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cDNA cloning
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Acyl-CoA-binding protein; Benzodiazepine receptor; Diazepam-binding inhibitor; Endozepine; (Carp); (*C. carpio*) (Chang, J.-L. (1298) 9)

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G protein-coupled receptor; Loop structure; (HL-60 cell) (Roglić, A. (1305) 39)

Mel-18; Genomic structure; Alternative splicing; Overlapping gene (Tetsu, O. (1305) 109)

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Spermatozoon; (Human) (Lea, I.A. (1307) 263)

S-Adenosylmethionine decarboxylase; Polyamine; Oogenesis; Maturation; Embryogenesis; Northern blot analysis; (*Xenopus*) (Shinga, J. (1308) 31)

4-Aminobenzoate hydroxylase; Flavoprotein (Tsuji, H. (1309) 31)

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DNA context
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DNA damage
DNA alkylation; DNA intercalation; Alphoid DNA; Plasmid pUC8; Consensus sequence (Murray, V. (1305) 79)

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DNA helicase II
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DNA intercalation
DNA damage; DNA alkylation; Alphoid DNA; Plasmid pUC8; Consensus sequence (Murray, V. (1305) 79)

cDNA library
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DNA ligase
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DNA methylation
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cDNA (murine)
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DNA packing
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DNA pairing
DNA ligase; Nuclear extract; Testis (Rat) (Acharya, S. (1309) 131)

DNA ploidy
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DNA polymerase I gene
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cDNA, ρ3
γ-Aminobutyric acid receptor; $GABA_C$ receptor (Ogurusu, T. (1305) 15)

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DNA repair
Tick; Ku antigen; ATP-dependent DNA helicase II; DNA helicase II; (Human) (Paesen, G.C. (1305) 120)

DNA replication
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Annexin II; Phosphorylation; Cell proliferation; B cell lymphoma (Chiang, Y. (1313) 295)

DNA sequence
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Cytochrome *c* oxidase; *ctaBCDEF* operon; Protein sequence; Heme O synthesis; (*B. stearothermophilus*) (Kusano, T. (1273) 129)

cDNA sequence
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Cardiotoxin; Gene expression; (*Naja naja atra*) (Chang, L.-S. (1295) 1)

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Hepatocyte nuclear factor-3 (HNF-3); Lung; mRNA expression; (Human) (Bingle, C.D. (1307) 17)

Helix-loop-helix; Dominant-negative transcription factor; Alternative splicing (Hernandez, M.-C. (1308) 28)

P2 purinoceptor; G protein-coupled receptor (Southey, M.C. (1309) 77)

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β-Thyroid hormone receptor; TRβ; (Chicken); (Duck) (Lachuer, J. (1310) 127)

Serum starvation; Fibroblast growth factor; Biological potential; Primary murine embryonic fibroblast (Shin, J.T. (1312) 27)

DNA sequencing
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DNA, single-stranded
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DNA structure
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DNA synthesis
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Docosahexaenoic acid
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Polyunsaturated fatty acid; Retroconversion; Δ^6-Desaturase; Δ^4-Desaturase; Human retinoblastoma; Human leukemia (Marzo, I. (1301) 263)

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Docosapentaenoic acid
Lipid; Docosahexaenoic acid; Essential fatty acid deficiency; Phospholipid; Phospholipid molecular species; (Rat hepatocyte) (Retterstøl, K. (1303) 180)

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α-Domain
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β-Domain
Zinc; Liver; Metallothionein; α-Domain; (Rat) (Saito, S. (1289) 65)

Domain I
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Dominant-negative transcription factor
cDNA sequence; Helix-loop-helix; Alternative splicing (Hernandez, M.-C. (1308) 28)

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Dopamine
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Dopamine receptor D_{1c}
Cloning; Sequence analysis; (Hypothalamus); (*O. mossambicus*) (Lamers, A.E. (1308) 17)

Double-strand break repair
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NADPH-quinone reductase; Induction; 2-Methylene-4-butyrolactone; Two-electron reduction; (*E. coli*) (Hayashi, M. (1273) 165)

Drug delivery
Liposome; Reticuloendothelial system; Liposome clearance; Liver perfusion (Liu, F. (1278) 5)

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Controlled release; Electron microscopy; Interlipidic particle; Light-triggerable liposome; Liposome; Photodynamic therapy; Photooxidation; Plasmalogen (Thompson, D.H. (1279) 25)

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Fludarabine; 2-fluoro-ara-AMP metabolism; (Human erythrocyte) (Fraternale, A. (1291) 149)

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Drug delivery system
Liposome; Endocytosis; Macrophage; Poly(ethylene glycol) (Vertut-Doï, A. (1278) 19)

Liposome; Temperature sensitivity; Dioleoylphosphatidylethanolamine; Poly(*N*-isopropylacrylamide); Lower critical solution temperature; Lamellar-hexagonal transition (Hayashi, H. (1280) 127)

Liposome; Opsonization; Positron emission tomography (PET); Gene transfer (Oku, N. (1280) 149)

Drug–lipid interaction
Isoflavonoid; Liposome; Aggregation; Phosphatidylinositol (Lehtonen, J.Y.A. (1285) 91)

Drug localization
Dipyridamole; Langmuir monolayer; Surface pressure; Surface potential (Borissevitch, G.P. (1278) 12)

Drug–membrane interaction
Differential scanning calorimetry; X-ray diffraction; Cannabinoid (Mavromoustakos, T. (1281) 235)

Carvedilol; Lipid peroxidation; Liposome binding; Fluorescence; Scanning calorimetry (Cheng, H.-Y. (1284) 20)

Drug penetration
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Drug resistance counteraction
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Drug targeting
Liposome; Immunoliposome; Long-circulating liposome; Antimyosin; Antibody; Myocardial infarction (Torchilin, V.P. (1279) 75)

Complement; Membrane lysis (Muzykantov, V.R. (1279) 137)

Folate-binding protein; Endocytosis; Caveolae; pH determination (Lee, R.J. (1312) 237)

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DSC
Liposome; Freeze-dry; Glucose; Maltodextrin; Saccharide; Lyophilization (Suzuki, T. (1278) 176)

Titration calorimetry; Circular dichroism; Multilamellar vesicle; Filipin III; Dimyristoylphosphatidylcholine; Lipid bilayer (Milhaud, J. (1278) 223)

Bilayer; Cholesterol; Partitioning; Phospholipid; Thermodynamics; Regular solution (Spink, C.H. (1279) 190)

Cholesterol analog; Thermotropic phase behavior; Phase behavior; 1-Stearoyl-2-oleoylphosphatidylcholine bilayer (Vilchèze, C. (1279) 235)

α-Tocopherol; Heteroacid phosphatidylcholine; Phosphatidylcholine (Sánchez-Migallón, M.P. (1279) 251)

Gamma irradiation; Liposome; Chemical stability; Physical stability; Thin-layer chromatography/fast atom bombardment mass spectrometry; Degradation (Zuidam, N.J. (1280) 135)

α-Tocopherol; Phosphatidylserine; FTIR; Calcium-45 ion binding (Sánchez-Migallón, M.P. (1281) 23)

Membrane protein thermostability; Cholesterol; ATPase, Ca^{2+}/Mg^{2+}-; Heat shock (Ortega, A. (1283) 45)

Ether lipid; Platelet activating factor; Antineoplastic agent; X-ray diffraction; Small-angle X-ray diffraction (Xie, X. (1283) 111)

Phase transition; Phospholipid; Polymorphism; Membrane; Scanning densitometry (Koynova, R. (1285) 101)

Cholesterol; Phosphatidylethanolamine; Lamellar phase; Inverted hexagonal phase; X-ray diffraction (Takahashi, H. (1289) 209)

Rod outer segment disk; Rhodopsin; Metarhodopsin; Cholesterol; Thermal stability (Albert, A.D. (1297) 77)

Collagen type I; Protein–salt interactions; Thermal stability; Protein electrostatics; Hofmeister effect; (Calf skin) (Komsa-Penkova, R. (1297) 171)

Duchenne's disease
Sarcoplasmic reticulum; Calcium pump; ATPase, Ca^{2+}-; Dystrophy; Functional alteration; (Muscle) (Kargacin, M.E. (1290) 4)

Dyschondroplasia
Collagen; Pyridinium cross-link; Growth plate; Cartilage; Chondrocyte; (Tibia); (Chick) (Farquharson, C. (1290) 250)

Dyslipidemia
Hypertriglyceridemia; $(n-3)$ Fatty acid; Fish oil; Sucrose-rich diet; Glucose intolerance (Lombardo, Y.B. (1299) 175)

Dystrophin
Utrophin; Sarcolemma; Cytoskeleton; Muscle (Ohlendieck, K. (1283) 215)

Dystrophy
Sarcoplasmic reticulum; Calcium pump; ATPase, Ca^{2+}-; Duchenne's disease; Functional alteration; (Muscle) (Kargacin, M.E. (1290) 4)

E

Ebselen
Atherosclerosis; LDL; Tocopheroxyl radical; EPR (Lass, A. (1303) 111)

Edrophonium
Carnitine distribution; Quaternary nitrogen compound; (Rat) (Pessotto, P. (1299) 245)

Efflux system
2-(4-Dimethylaminostyryl)-1-ethylpyridinium; DMP^+; Lipophilic cation; Energization; Envelope; (*E. coli*) (Sedgwick, E.G. (1278) 205)

EF hand
Parvalbumin; Oncomodulin; Calcium-binding protein; Magnesium binding; Calcium homeostasis; Calcium signaling (Pauls, T.L. (1306) 39)

EF hand
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EGF
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EGF receptor
Pioglitazone; Tyrosine kinase (Takata, Y. (1312) 68)

Signal transduction; Ionizing radiation; Antibody (Balaban, N. (1314) 147)

Ehrlich ascites tumor
Thymidine kinase 1; Phosphorylation (He, Q. (1289) 25)

Ehrlich cell
Plasma membrane redox; Protein kinase C; Phosphoprotein phosphatase; Okadaic acid; Phorbol ester (Del Castillo-Olivares, A. (1313) 157)

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Cotransporter, $Na^+/K^+/Cl^-$; Chloride accumulation; Sodium ion transport; Potassium ion transport; Chloride ion transport (Thomas-Young, R.J. (1280) 231)

Eicosanoid
Amebocyte; High pressure liquid chromatography; Electrospray; Mass spectrometry; Hydroxyeicosatetraenoic acid; (*L. polyphemus*) (MacPherson, J.C. (1303) 127)

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Elastase
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Elastic energy
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Electrical activity
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Electrical breakdown
Cell electrodynamics; Cell membrane; Electroporation; Electric field; Lethal effect (Kekez, M.M. (1278) 79)

Electric conductivity
Electric permittivity; Yeast cell (Raicu, V. (1274) 143)

Electric field
Rod outer segment; Photoreceptor cell; Orientation (Chirieri-Kovács, E. (1273) 217)

Electrical breakdown; Cell electrodynamics; Cell membrane; Electroporation; Lethal effect (Kekez, M.M. (1278) 79)

Electric permittivity
Electric conductivity; Yeast cell (Raicu, V. (1274) 143)

Electrochromism
Photosynthesis; Water oxidation; Proton release; Net charge; Photosystem II; Oxygen-evolving complex (Kretschmann, H. (1274) 1)

Electrogenic pump
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Electron donor
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Electron-electron double resonance
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Electron microscopy
Light harvesting complex; Photosynthesis; Two-dimensional crystallization; Purple bacterium; (*Ectothiorhodospira sp.*); (*Rb. capsulatus*) (Oling, F. (1273) 44)

Photosynthesis; Purple bacterium; Light harvesting complex; Analytical centrifugation; (*Rv. gelatinosus*) (Jirsakova, V. (1277) 150)

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Photosynthesis; Reaction center; Electron spin polarization; Quinone; Triplet; Iron removal; Carotenoid; Spectral simulation (Bosch, M.K. (1276) 106)

Ambidentate; Thermodynamics; Heterocyclic amine; Histidine; Morpholine; Myoglobin (Stephanos, J.J. (1295) 209)

Electron spin echo
Calcium ion-depleted photosystem II; Manganese-cluster; Multiline signal; S_3 signal; Electron-electron double resonance (Hara, H. (1276) 140)

Electron spin polarization
Photosynthesis; Reaction center; Quinone; Triplet; Iron removal; Carotenoid; Electron paramagnetic resonance; Spectral simulation (Bosch, M.K. (1276) 106)

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Reaction center; Sequential mechanism; Structure; Electron donor; ENDOR; (*Rb. sphaeroides*) (Huber, M. (1273) 108)

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Cytochrome *c* oxidase; Proton transfer; Electrostatics (Rich, P.R. (1275) 91)

Cytochrome *f*; Rieske protein; Cytochrome *bf* complex; Plastocyanin; (Cyanobacterium) (Wagner, M.J. (1276) 246)

Plastocyanin; Cytochrome *f*; Site-directed mutagenesis (Kannt, A. (1277) 115)

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Electron transfer chain
Mitochondrial protein; Nuclear gene; Mitochondrial myopathy; Bioenergetics (Makris, G.J. (1308) 197)

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Electron transport
Archaea; Hyperthermophile; Terminal oxidase; ATPase; Energy conservation; (*Sulfolobus*) (Schäfer, G. (1277) 163)

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Electrospray
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Electrospray ionization mass spectrometry
Hemoglobin; cDNA sequence; (Pogonophora); (*Oligobrachia*) (Yuasa, H.J. (1296) 235)

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Electrotransfection/electrotransformation
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***groEL* gene**
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Liposome; Poly(acrylic acid); Macrophage; Scavenger receptor (Fujiwara, M. (1278) 59)

Oligonucleotide; Macrophage; Uptake; Mannose receptor; Endosome (Liang, W.W. (1279) 227)

Fluid-phase endocytosis; Membrane physical state; Epithelium; MDCK cell; LLC-PK1 cell (Mamdouh, Z. (1282) 171)

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Endonuclease V
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Endo-polygalacturonase
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ENDOR
Electron transfer; Reaction center; Sequential mechanism; Structure; Electron donor; (*Rb. sphaeroides*) (Huber, M. (1273) 108)

Endosome
Oligonucleotide; Macrophage; Uptake; Endocytosis; Mannose receptor (Liang, W.W. (1279) 227)

Endothelial cell
Gelatinase; Neutrophil; Tissue inhibitor of metalloproteinase; Zymography; RT-PCR; (Human umbilical vein) (Zaoui, P. (1290) 101)

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Astrocytoma; U138MG cell; Endothelin receptor; Receptor internalization; Phosphatidylinositol hydrolysis; (Human) (Wu-Wong, J.R. (1311) 155)

Endothelin-1
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Endothelin receptor
Astrocytoma; U138MG cell; Endothelin; Receptor internalization; Phosphatidylinositol hydrolysis; (Human) (Wu-Wong, J.R. (1311) 155)

Endothelium
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Glucose transport; Blood-brain barrier; GLUT1 (Gaposchkin, C.G. (1285) 255)

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Endotoxin
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Guanine nucleotide regulatory protein; Pertussis toxin; Endotoxin tolerance; GTPγ[^{35}S] (Makhlouf, M. (1312) 163)

Endotoxin tolerance
Guanine nucleotide regulatory protein; Pertussis toxin; Endotoxin; GTPγ[^{35}S] (Makhlouf, M. (1312) 163)

Endozepine
Acyl-CoA-binding protein; Benzodiazepine receptor; cDNA cloning; Diazepam-binding inhibitor; (Carp); (*C. carpio*) (Chang, J.-L. (1298) 9)

Energization
2-(4-Dimethylaminostyryl)-1-ethylpyridinium; DMP^+; Lipophilic cation; Efflux system; Envelope; (*E. coli*) (Sedgwick, E.G. (1278) 205)

Energy conservation
Archaea; Hyperthermophile; Electron transport; Terminal oxidase; ATPase; (*Sulfolobus*) (Schäfer, G. (1277) 163)

Energy coupling
Transporter protein; Lactose carrier protein; Water-soluble solute; Salt bridge; (*E. coli*) (Varela, M.F. (1276) 21)

Energy dissipation
Diadinoxanthin; Diatoxanthin; Excited state; Optical spectroscopy; Xanthophyll cycle; (Femtosecond) (Frank, H.A. (1277) 243)

Energy metabolism
Creatine kinase; NMR, P-31; Saturation transfer; Mitochondrion; Enzyme kinetics (Van Dorsten, F.A. (1274) 59)

Energy parameter; Synaptosome; Glycolysis (Erecińska, M. (1277) 13)

Zymosan; Skeletal muscle; Critical illness; High energy phosphate; Tricarboxylic acid cycle (Rooyackers, O.E. (1315) 55)

Energy migration
Circular dichroism; Light harvesting chlorophyll *a*/*b* complex (LHCII); Psi-type aggregate; Singlet-singlet annihilation; Ultrafast absorbance transient (Barzda, V. (1273) 231)

Energy parameter
Energy metabolism; Synaptosome; Glycolysis (Erecińska, M. (1277) 13)

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Sodium transport; Potassium transport; (*E. coli*) (Verkhovskaya, M.L. (1273) 207)

bc_1 complex; Cytochrome *b* mutants; *Rhodobacter capsulatus*; *Saccharomyces cerevisiae*; Photosynthesis and respiration (Brasseur, G. (1275) 61)

Membrane transport; Mutant; Calcium-transporting ATPase; Uncoupling; Conformational change (Andersen, J.P. (1275) 118)

Subfragment 1; Tryptophan; Bent conformation; ATPase; Nucleotide analog (Park, S. (1296) 1)

Energy transfer dynamics
Photosynthetic Light harvesting system; Light harvesting complex; Purple bacterium; *Rhodopseudomonas acidophila* (Monshouwer, R. (1275) 70)

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Enhancer
Gene expression; Transcription; cyclic AMP; Thyroglobulin (Berg, V. (1307) 35)

VL30; Cooperative binding; CREB/JUN (Pribnow, D. (1307) 55)

Enterostatin
Food intake; High fat; Hybridization, in situ; Lipase; Procolipase; (Pancreas); (Rat stomach) (Sörhede, M. (1301) 207)

Envelope
2-(4-Dimethylaminostyryl)-1-ethylpyridinium; DMP^+; Lipophilic cation; Efflux system; Energization; (*E. coli*) (Sedgwick, E.G. (1278) 205)

Enzyme
β-Galactosidase; High pressure denaturation; Physical environment (Degraeve, P. (1292) 61)

Enzyme activity
δ-Crystallin; Enzyme-crystallin; Argininosuccinate lyase; (Duck embryo); (Eye); (Lens) (Piatigorsky, J. (1295) 158)

Enzyme activity variant
Lactate dehydrogenase B variant; Lactate dehydrogenase B catalysis; Subunit structure (Shonnard, G.C. (1315) 9)

Enzyme aggregation
Acid trehalase; Sucrase; Characterization; (*S. cerevisiae*) (Biswas, N. (1290) 95)

Enzyme-crystallin
δ-Crystallin; Enzyme activity; Argininosuccinate lyase; (Duck embryo); (Eye); (Lens) (Piatigorsky, J. (1295) 158)

Enzyme immunoassay
Gliostatin; Platelet-derived endothelial cell growth factor; Distribution; Expression; Reverse transcription polymerase chain reaction (Matsukawa, K. (1314) 71)

Enzyme inactivation
Glutamate dehydrogenase; *o*-Phthalaldehyde; Isoindole; (Bovine liver) (Pandey, A. (1293) 122)

Catalase; Hydrogen peroxide; (Bovine liver); (*Aspergillus niger*) (Lardinois, O.M. (1295) 222)

Cosolvent effect; Temperature; High performance size exclusion chromatography (Jensen, W.A. (1296) 23)

Catalase; Sodium azide; Compound III; (Bovine liver) (Lardinois, O.M. (1298) 180)

Enzyme induction
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Enzyme inhibition
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Enzyme inhibitor
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Enzyme isoform
Glyceraldehyde-3-phosphate dehydrogenase; Covalent modification; Hibernation; Chromatofocusing; (*J. orientalis*) (Soukri, A. (1292) 177)

Enzyme kinetics
Creatine kinase; NMR, P-31; Saturation transfer; Mitochondrion; Energy metabolism (Van Dorsten, F.A. (1274) 59)

Δ6-Desaturase; Fatty acid desaturation; Linoleic acid; Computer modeling; Acyl-CoA synthetase; Lysophospholipid acyltransferase (Ivanetich, K.M. (1292) 120)

γ-Glutamyl transpeptidase; Saccharide moiety (Dvořáková, L. (1292) 163)

Enzyme mechanism
N^{10}-Formyltetrahydrofolate synthetase; Site-directed mutagenesis; Substrate binding; (*C. cylindrosporum*) (Kounga, K. (1296) 112)

Enzyme phosphorylation
Cholesteryl ester hydrolase; Cholesterol esterase; Developmental change; Protein kinase A; Transcriptional regulation; (Rat liver) (Natarajan, R. (1302) 153)

Enzyme purification
L(−)-Carnitine; L(−)-Carnitine dehydrogenase; Trimethylammonium compound; (*Agrobacterium*) (Hanschmann, H. (1290) 177)

Steroid esterification; Hormone; Pregnenolone; Dehydroepiandrosterone; Lecithin-cholesterol acyltransferase (Lavallée, B. (1299) 306)

Lipase; Expression cloning; Nucleotide sequence; Thermophilic; (*B. thermocatenulatus*) (Schmidt-Dannert, C. (1301) 105)

Enzyme regulation
Hydrogen peroxide; ATPase, Na^+/K^+-; Oxidative stress (González-Flecha, B. (1290) 46)

Hydrogenase; Isotope exchange, hydrogen/deuterium; (*A. vinelandii*) (McTavish, H. (1294) 183)

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Lysosomal storage disease; Recombinant enzyme (Bijvoet, A.G.A. (1308) 93)

Enzyme structure and mechanisms
Cellular regulation; Phosphorylation; (Category) (Bensen, E.S. (1292) 249)

Eosinophil
Human leukocyte elastase (Wiedow, O. (1315) 185)

Epidermal growth factor
Choline kinase; Cultured cell; Glycerophosphate acyltransferase; Insulin; Phospholipid; (Human) (Uchida, T. (1304) 89)

Epidermal growth factor receptor (EGF-R)
$pp60^{src}$; Phosphorylation (Wright, J.D. (1312) 85)

Epidermal inhibitory pentapeptide
Angiotensin-converting enzyme; Proteinase; (Porcine serum) (Bramucci, M. (1290) 184)

Epidermis
cDNA cloning; Gene structure; Chromosomal localization; Targeted gene disruption; Leukotriene; Inflammation; Platelet; Macrophage (Funk, C.D. (1304) 65)

Epididymal fluid
β1-3*N*-Acetylglucosaminyltransferase; Rete testicular fluid; Lacto-*N*-triose II; NMR, ^{1}H-; (Rat) (Tsuji, Y. (1289) 115)

Epithelial cell
Stem cell factor; Lung disease (Wen, L.-P. (1314) 183)

Epithelial polarity
Cell adhesion; Immunoglobulin superfamily; Cytokine; Molecular cloning (Schuster, V.L. (1311) 13)

Epithelium
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Epitope
Monoclonal antibody; Bilirubin; (Human) (Yamaguchi, T. (1289) 110)

Hemocyanin; Monoclonal antibody; Dimer (Jekel, P.A. (1291) 195)

Disulfide reduction; Ligand binding; Monoclonal antibody; Refolding; Riboflavin carrier protein (Velu, N.K. (1293) 231)

S100 protein; Glial fibrillary acidic protein; Inhibitor TRTK-12; Calcium ion (Bianchi, R. (1313) 258)

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Intermediate filament; GFAP; Desmin; S100 protein; Calcium (Garbuglia, M. (1313) 268)

Epoxide
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Calcium homeostasis; Exercise; Sarcoplasmic reticulum; ATPase, Ca^{2+}- (Ferrington, D.A. (1279) 203)

ATPase, Ca^{2+}-; *n*-Alkanol; Dibucaine; Tetracaine; Spin label (Antenodo, C. (1281) 150)

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Cytochrome *c'*; Nitric oxide; Photosynthetic bacterium; Absorption spectrum; Nitrosylheme (Yoshimura, T. (1292) 39)

Lipid fluidity; Phase transition temperature; Drug penetration; Activation energy; (Rat stratum corneum) (Ogiso, T. (1301) 97)

Atherosclerosis; Ebselen; LDL; Tocopheroxyl radical (Lass, A. (1303) 111)

Lipid peroxidation; Iron chelation; Free-radical scavenger; Antioxidant; Polyphenol, green tea; Synaptosome; (Rat) (Guo, Q. (1304) 210)

Glycogen storage disease; Erythrocyte membrane; Membrane fluidity; Fatty acid (Keddad, K. (1315) 61)

Epstein–Barr virus
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Equilibrium intermediate
Adenylate kinase; Anilinonaphthalene sulfate; Sequential unfolding; Size-exclusion chromatography; Second derivative spectrum (Zhang, Y.-L. (1295) 239)

β-Lactamase; Molten globule; Protein folding; (*E. coli*) (Sarkar, D. (1296) 85)

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Equine estrogen
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Ergosterol
Rhodopsin–cholesterol interaction; Cholesterol; Cholestatrienol; Tryptophan fluorescence; Rod outer segment disk membrane; (Bovine) (Albert, A.D. (1285) 47)

Error simulation
Renkin's equation; Pore size; Outer membrane; Nonelectrolyte; Diffusion; (*P. aeruginosa*) (Kulkarni, S.B. (1281) 189)

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Erythrocyte
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Glycoalkaloid; Caco-2; Mitochondrion; Cholesterol; Permeabilization; Membrane disruption (Keukens, E.A.J. (1279) 243)

Time domain dielectric spectroscopy; Dielectric constant; Erythrocyte ghost (Lisin, R. (1280) 34)

Hemolysis; Polyol; Cell shape; Dielectric constant; Partition coefficient; Cryoprotectant toxicity (Bakaltcheva, I.B. (1280) 73)

Band 3; High pressure behavior; Hemolysis; pH, intracellular (Matsumoto, M. (1280) 243)

Sodium urate crystal; Urate monohydrate crystal, monosodium; Hemolysis; Membrane pore (Jackson, J.K. (1281) 45)

Bacterial toxin; Membrane transport; Hemolysin; Neuraminidase; (*V. parahaemolyticus*) (Huntley, J.S. (1281) 220)

Putrescine; Spermidine; Transport; Uptake; Export (Fukumoto, G.H. (1282) 48)

Iron transport; Sodium/magnesium antiport (Stonell, L.M. (1282) 163)

Phosphatidylserine; Phagocytosis; Aminophospholipid translocase; Thalassemia, Eβ- (Srinivasan, P.T. (1285) 65)

Blood; Rouleaux formation; Dielectric constant; Conductivity; (Human) (Irimajiri, A. (1290) 207)

Crosslinking; Band 3 (Jordán, J.A. (1291) 27)

Peroxynitrite; Membrane; Glutathione; Thiol group; ATPase; Free radical (Soszyński, M. (1291) 107)

NMR, ^{31}P-; ADP/ATP binding; Time domain analysis (VAPRO); (Human); (Chicken) (Stubbs, M. (1291) 143)

Antioxidant; β-Carotene; Phospholipid; Lipid peroxide; (Mouse) (Nakagawa, K. (1299) 110)

Glycosphingolipid; Sulfatide; Platelet; (Bovine) (Kushi, Y. (1304) 254)

Erythrocyte deformability
Protoporphyrin; Merocyanine 540; Osmotic hemolysis; Hemolysis (Lagerberg, J.W.M. (1278) 247)

Erythrocyte ghost
Time domain dielectric spectroscopy; Dielectric constant; Erythrocyte (Lisin, R. (1280) 34)

Erythrocyte membrane
Anion transport; Essential arginine; (Human) (Böhm, R. (1280) 238)

Anionic phospholipid; Flip-flop; Anion transport; Band 3; Flippase (Serra, M.V. (1282) 263)

Glycogen storage disease; Membrane fluidity; EPR; Fatty acid (Keddad, K. (1315) 61)

Erythrocyte membrane vesicle
Phospholipid asymmetry; Prothrombinase assay; Membrane skeleton; Aminophospholipid translocase; Vanadate (De Jong, K. (1281) 101)

Erythroleukemia cell (HEL)
Transglutaminase; Retinoic acid; Alternative splicing (Fraij, B.M. (1306) 63)

Erythropoietic protoporphyria
Ferrochelatase; Splicing mutation; Missense mutation (Wang, X. (1316) 149)

ES cell
Gene trap; *lac*Z-reporter; Expression pattern (Rijkers, T. (1307) 294)

Escherichia coli
Biosynthetic ornithine decarboxylase; Phosphorylation; Nucleotide activation; GTP binding (Anagnostopoulos, C.G. (1297) 228)

Essential arginine
Anion transport; Erythrocyte membrane; (Human) (Böhm, R. (1280) 238)

Essential fatty acid deficiency
Lipid; Docosapentaenoic acid; Docosahexaenoic acid; Phospholipid; Phospholipid molecular species; (Rat hepatocyte) (Retterstøl, K. (1303) 180)

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Ester
Hepatocyte gene regulation; mRNA quantitation; Cholesterol; Lipoprotein; Apolipoprotein (Rea, T.J. (1299) 67)

Esterase
γ-Glutamylcysteinylethyl ester; Glutathione synthetase; Glutathione (reduced form); Hepatocytes (rat) (Nishida, K. (1313) 47)

Esterification
Lipase, microbial; Acylglycerol; Alkylglycerol; Stereoselective hydrolysis; Isomerization (Kovac, A. (1301) 57)

Estradiol 17α
Neutral cholesterol esterase; Estradiol 17β; J774 A.1 cell; cyclic AMP-dependent protein kinase; Cholesteryl ester accumulation (Tomita, T. (1300) 210)

Estradiol 17β
Chondrocyte; Estrogen; Fluidity; Arachidonic acid turnover; Membrane; Matrix vesicle (Schwartz, Z. (1282) 1)

Equine estrogen; Copper ion; Cardioprotection (Tang, M. (1299) 155)

Neutral cholesterol esterase; Estradiol 17α; J774 A.1 cell; cyclic AMP-dependent protein kinase; Cholesteryl ester accumulation (Tomita, T. (1300) 210)

Estradiol 17β-dehydrogenase
Urea; Denaturation; Molten globule; (Human placenta) (Mendoza-Hernández, G. (1297) 219)

Estrogen
Chondrocyte; Fluidity; Arachidonic acid turnover; Membrane; Matrix vesicle; Estradiol 17β (Schwartz, Z. (1282) 1)

Estrogen biosynthesis
Tissue specificity; Exon 1; Promoter (Honda, S.-i. (1305) 145)

E-subunit
ATPase, V-; Ion transport; Proton pump; Diptera; (*D. melanogaster*) (Guo, Y. (1283) 4)

E2 subunit
Branched-chain α-ketoacid dehydrogenase; Dihydrolipoyl transacylase; B1 repeat (Costeas, P.A. (1305) 25)

Ethanol
Asymmetric fluidity; Lateral mobility; Rotational mobility; Native membrane; Model membrane; (Mouse); (Cell line Sp2/0-Ag14) (Kang, J.-S. (1281) 157)

Liver; Lysosome; Proteinase; Hydrolase; Trafficking; Cathepsin L; Intracellular processing (Kharbanda, K.K. (1291) 45)

Ethanolamine glycerophospholipid
Major intrinsic protein; Intercellular junction; Junctional lipid; Boundary lipid; Cholesterol; Sphingomyelin; (Bovine ocular lens) (Baumann, C.G. (1303) 145)

Ethanol metabolite
Fatty acid ethyl ester; Microsomal enzyme; Acyl-CoA hydrolase; Human liver; Acyl-CoA:ethanol acyltransferase (Treloar, T. (1299) 160)

Ether lipid
Platelet activating factor; Antineoplastic agent; X-ray diffraction; Small-angle X-ray diffraction; DSC (Xie, X. (1283) 111)

Keratinocyte; Tissue culture; Lipid metabolism (Oku, H. (1300) 35)

Ethyl alcohol
Interdigitation; Permeability; Liposome; Sterilization (Komatsu, H. (1283) 73)

Ethylazinphos
Cholesterol; Fluorescent probe; Membrane organization; Partition coefficient (Videira, R.A. (1281) 65)

Euglobulin
Prealbumin; α_{2u}-Globulin; Partial sequence; Allergen; (Rat urine) (Bayard, C. (1290) 129)

Eukaryotic initiation factor 2B
Guanine nucleotide exchange factor; Protein synthesis; Translational control (Asuru, A.I. (1307) 309)

Protein synthesis; Genomic cloning; cDNA; (Rat) (Flowers, K.M. (1307) 318)

Eukaryotic translation initiation factor 4E
Translational control; Intracellular distribution; Nuclear localization sequence; 5′ cap binding; (Yeast) (Ptushkina, M. (1308) 142)

Eukaryotic translation initiation factor 5A
Antiproliferation; Deoxyhypusine synthase; Cell growth; Tumorigenic cell line (Shi, X.-P. (1310) 119)

Europium-chelate
Liposome; Streptavidin; Biotin; Lanthanide; Time-resolved fluorometry; Detergent; Phospholipase A_2 (Orellana, A. (1284) 29)

Everted membrane vesicle
ATP synthase; ATPase, F_1F_o-; Proteoliposome; (Streptomycetes) (Hensel, M. (1274) 101)

Evolution
Photosystem I; Photosynthesis; X-ray structure; Crystal; Photosystem II (Fromme, P. (1275) 76)

Troponin I; Muscle protein; Molecular sequence data; Vertebrate; (*Clupea harengus*); (Fish) (Hodgson, P.A. (1306) 142)

P-glycoprotein; Short interspersed repetitive element; Gene conversion; Multigene family (Childs, S. (1307) 205)

5S rRNA; 5S rRNA gene (Szymański, M. (1308) 251)

Kinetoplastida; Ribosome; Ribosomal protein; L18; (*Trypanosoma brucei*) (Coulter, L.J. (1309) 69)

Excimer method
Chi parameter; Phase transition; Phospholipid; Interdigitated gel structure; Deuterium oxide (Kinoshita, K. (1284) 233)

Excitation energy transfer
Chlorophyll; Kinetic model; Photosynthesis; Picosecond fluorescence; Primary charge separation; Thermal equilibrium (Dau, H. (1273) 175)

Excitation transfer
State transition; Quantum yield spectrum; Light harvesting complex; Photoacoustics (Delosme, R. (1273) 150)

Excited state
Diadinoxanthin; Diatoxanthin; Energy dissipation; Optical spectroscopy; Xanthophyll cycle; (Femtosecond) (Frank, H.A. (1277) 243)

Exercise
Calcium homeostasis; EPR; Sarcoplasmic reticulum; ATPase, Ca^{2+}- (Ferrington, D.A. (1279) 203)

Exoglucanase
Dol-PP-oligosaccharide; β-1,6-Mannose branch; *alg3*; (*S. cerevisiae*) (Cueva, R. (1289) 336)

Exoglucanase (β-glucosidase)
Secretion; Kex2p; *Sec7*; (*S. cerevisiae*) (Basco, R.D. (1310) 110)

Exon 1
Tissue specificity; Estrogen biosynthesis; Promoter (Honda, S.-i. (1305) 145)

Exon-intron organization
ATP-citrate lyase gene; Cloning (Moon, Y.-A. (1307) 280)

Exonuclease activity
DNA polymerase I gene; Substitution mutant; (*B. stearothermophilus*) (Riggs, M.G. (1307) 178)

Experimental allergic encephalomyelitis
Myelin basic protein; NMR spectroscopy; Histidine line broadening (Koshy, K.M. (1293) 23)

Export
Putrescine; Spermidine; Transport; Erythrocyte; Uptake (Fukumoto, G.H. (1282) 48)

Expression
Cystic fibrosis transmembrane conductance regulator; Yeast; Initiation codons; Chloride ion channel (Huang, P. (1281) 80)

Crassulacean acid metabolism; ATPase, H^+-; Salt stress; Subunit E; Tonoplast; Vacuole; (*M. crystallinum*); (Tissue) (Dietz, K.-J. (1281) 134)

5α-Reductase; Steroidogenesis; Cloning; Intracrinology; (Rat) (Lopez-Solache, I. (1305) 139)

Phosphofructokinase; Beta cell; Isoform; Characterization; (Rat pancreas) (Ma, Z. (1308) 151)

Germ cell nuclear factor; Nuclear receptor superfamily; Testis; Neuronal (Süsens, U. (1309) 179)

Leucine zipper; Transcription; cDNA sequence; (Human) (Vogel, P. (1309) 200)

Elongation factor 3; ATPase; ATP-binding motif; Protein synthesis; Plasmid shuffling (Yang, H. (1310) 303)

Gliostatin; Enzyme immunoassay; Platelet-derived endothelial cell growth factor; Distribution; Reverse transcription polymerase chain reaction (Matsukawa, K. (1314) 71)

Expression cloning
Lipase; Nucleotide sequence; Enzyme purification; Thermophilic; (*B. thermocatenulatus*) (Schmidt-Dannert, C. (1301) 105)

Expression pattern
Gene trap; ES cell; *lac*Z-reporter (Rijkers, T. (1307) 294)

Expression plasmid
ATPase, F_1-; ATPase, H^+-; Subunit reconstitution; Glutathione *S*-transferase; Overexpression; (*E. coli*) (Shin, Y. (1273) 62)

Expression site
Topoisomerase II; Fetal tissue; mRNA; In situ hybridization (Zandvliet, D.W.J. (1307) 239)

Extended black locus
Melanocortin 1-receptor; Pigmentation; (Chicken) (Takeuchi, S. (1308) 164)

Extended X-ray absorption fine structure spectroscopy
Distal water/hydroxide; Heme protein; Magnetic circular dichroism spectroscopy; Oxygenase; Proximal histidine (Hawkins, B.K. (1295) 165)

External osmolarity
Oxidative phosphorylation efficiency; Mitochondrion; Matrix volume; Adenine nucleotide carrier; Swelling; (Rat liver) (Devin, A. (1273) 13)

Extracellular ATP
Synaptosome; Plasma membrane; Ca^{2+}/Mg^{2+} ecto-ATPase; Concanavalin A (Martín-Romero, F.J. (1283) 51)

Extracellular enzyme
Invertase, S- and F-form; Purification; Characterization; (*A. nidulans*) (Chen, J.-s. (1296) 207)

Extracellular enzyme activity
Cathepsin B; Osteoblast-like cell; Interleukin-1β; Parathyroid hormone; Intracellular enzyme activity (Aisa, M.C. (1290) 29)

Extracellular hemoglobin
Hemoglobin; Oligomeric structure; Methemoglobin; Hemichrome; Alkaline dissociation; (*G. paulistus*); (Annelid) (Agustinho, S.C.M. (1298) 148)

Extracellular matrix
Collagen; FTIR spectroscopy; Heart failure; Myocardial infarction; Near infrared spectroscopy (Liu, K.-Z. (1315) 73)

Extracellular trehalase
Trehalose; Trehalase; Intracellular trehalase; (*S. thermophilum*) (Kimiko Kadowaki, M. (1291) 199)

Extrachromosomal DNA
Class switch recombination; Illegitimate recombination; Double-strand break repair (Kameyama, K.-z. (1308) 263)

Extreme thermophile
α-Glucosidase; Thermophile; Archaebacterium; Thermostabilization; Immobilization; (*Thermococcus*) (Piller, K. (1292) 197)

Extremophile
Archaea (Schäfer, G. (1275) 16)

Eye
Crystallin; Gene expression; Lens; Transgenic mouse (Sax, C.M. (1305) 49)

Eye lens
Digital image analysis; Aqueous humor; Liposome; Lipid peroxidation; Cataract; Retinal disease (Babizhayev, M.A. (1315) 87)

F

FAB-MS
Archaebacterium; Liposome; Membrane; Phytanyl group; NMR, ^{1}H- (Yamauchi, K. (1283) 163)

Cyanobacterium; Deuterated biomass; Lipid composition; NMR, solid state, ^{2}H- and ^{31}P-; GC-MS; LSIMS; (*S. maxima*) (Tropis, M. (1284) 196)

Acylated sphingomyelin; Sphingomyelin; NMR, ^{1}H- and ^{13}C-; (Porcine plasma); (Human umbilical cord) (Kramer, J.K.G. (1303) 47)

FAC1
cDNA; Zinc finger binding motif; (Human) (Zhu, P. (1309) 5)

Facilitated-diffusion nucleobase transport
Hypoxanthine transport; Sodium ion/nucleobase cotransport; Nucleobase cotransport; Phorbol ester; Phorbol 12-myristate 13-acetate; Diacylglycerol (Griffith, D.A. (1284) 213)

Factor D
Complement; Alternative pathway; Factor J; Serine proteinase (González-Rubio, C. (1295) 174)

Factor H
Thrombospondin; Heparin affinity; Contamination; Glycoprotein (Carron, J.A. (1289) 305)

Factor J
Complement; Alternative pathway; Factor D; Serine proteinase (González-Rubio, C. (1295) 174)

Factor Xa
Proteolysis; Plasma membrane; ATPase, H^+-; (Yeast) (Bandell, M. (1280) 81)

Plasminogen activator inhibitor-1; Calcium ion; Heparin; Vitronectin (Urano, T. (1298) 199)

Factor XII
Contact phase; Intrinsic blood coagulation; Coagulation; (Porcine blood) (Mashiko, H. (1296) 198)

FAD fragment
Cellobiose dehydrogenase; Cellobiose oxidase; Heme fragment; Small-angle X-ray scattering; Shape; (*P. chrysosporium*) (Lehner, D. (1293) 161)

Familial amyloidotic polyneuropathy
Transthyretin variant; Amyloid formation; Fluorimetric assay; Kinetic study; Sulfate (Bonifácio, M.J. (1316) 35)

Familial hypercholesterolemia
LDLR mutation; SSCP analysis; (Spain) (Cenarro, A. (1316) 1)

Farnesyl
Prenylation; Geranylgeranyl; Zaragozic acid; Keratinocyte (MacNulty, E.E. (1289) 41)

Fast conformer
Cytochrome oxidase; Formate binding; Slow conformer (Chang, K.-T. (1277) 237)

Fast phase aggregation
Fibrinogen; Immunoglobulin G; Plasma protein; (Human erythrocyte) (Game, L. (1291) 138)

Fatty acid
ATPase, Na^+/K^+-; Diacylglycerol; Monoacylglycerol; Sodium pump (Jack-Hays, M.G. (1279) 43)

Archaebacterium; Halophile; Halorhodopsin (Corcelli, A. (1281) 173)

Permeability; Bilayer lipid membrane; Unstirred layer; Monocarboxylic acid (Evtodienko, V.Yu. (1281) 245)

Apolipoprotein; Lipoprotein; Yolk sac; (Rat fetus) (Plonné, D. (1299) 54)

Cholesterol efflux; HDL; HDL phospholipid (Sakr, S.W. (1300) 49)

Fibrate; Gene expression; Hypolipidemic drug; Lipid metabolism; Nuclear hormone receptor; PPAR; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

Hydroxycoumarin; Serum albumin; Surface pH; Phospholipase assay; Spectrophotometric recording; (Bovine) (Demant, E.J.F. (1304) 43)

DNA polymerase; Enzyme inhibitor (Mizushina, Y. (1308) 256)

Glycogen storage disease; Erythrocyte membrane; Membrane fluidity; EPR (Keddad, K. (1315) 61)

($n-3$) Fatty acid
Hypertriglyceridemia; Fish oil; Sucrose-rich diet; Dyslipidemia; Glucose intolerance (Lombardo, Y.B. (1299) 175)

Fatty acid binding protein
L-cell; Oleic acid; *cis*-Parinaric acid; Fatty acid uptake and esterification; Fluorescence; (Liver) (Murphy, E.J. (1301) 191)

Fatty acid biosynthesis
Type I fatty acid synthase; Type II fatty acid synthase; (*E. coli*) (Rock, C.O. (1302) 1)

Fatty acid β-oxidation
Palmitic acid; Octanoic acid; Reye's syndrome; Influenza B virus; Surfactant; Acute hepatic encephalopathy; (Mouse liver) (Murphy, M.G. (1315) 208)

Fatty acid composition
3-Thia fatty acid; Lipoprotein; Fatty acid oxidation (Asiedu, D.K. (1300) 86)

Fatty acid desaturation
Photosystem I; Photosystem II; (*C. reinhardtii*) (Sato, N. (1274) 112)

Δ6-Desaturase; Linoleic acid; Computer modeling; Enzyme kinetics; Acyl-CoA synthetase; Lysophospholipid acyltransferase (Ivanetich, K.M. (1292) 120)

Cyanobacterium; Mutation site; Protein composition; Lipid composition (Gombos, Z. (1299) 117)

Fatty acid hydroxylation; Oleoyl-CoA; Membrane fraction; Oleaginous fungi; (*Mortierella ramanniana*) (Certik, M. (1304) 56)

Fatty acid effect
Steroid hormone-albumin binding; Albumin; Bovine serum albumin; Serum albumin; Association constant; (Human) (Watanabe, S. (1289) 385)

Fatty acid elongation
Plant fatty acid; Acetyl-CoA carboxylase; Fatty acid synthase; Desaturase; Fatty acid modification; Lipid transfer protein (Harwood, J.L. (1301) 7)

Fatty acid ethyl ester
Microsomal enzyme; Ethanol metabolite; Acyl-CoA hydrolase; Human liver; Acyl-CoA:ethanol acyltransferase (Treloar, T. (1299) 160)

Fatty acid hydroxylation
Oleoyl-CoA; Membrane fraction; Oleaginous fungi; Fatty acid desaturation; (*Mortierella ramanniana*) (Certik, M. (1304) 56)

Fatty acid metabolism
Carnitine palmitoyltransferase I; cDNA cloning; Northern analysis (Yamazaki, N. (1307) 157)

Fatty acid modification
Plant fatty acid; Acetyl-CoA carboxylase; Fatty acid synthase; Desaturase; Fatty acid elongation; Lipid transfer protein (Harwood, J.L. (1301) 7)

Fatty acid oxidation
3-Thia fatty acid; Lipoprotein; Fatty acid composition (Asiedu, D.K. (1300) 86)

Acetyl-CoA carboxylase; Malonyl-CoA (Kudo, N. (1301) 67)

Dietary α-linolenic acid; α-Linolenic acid; Lipogenesis; (Rat liver) (Kabir, Y. (1304) 105)

Fatty acid synthase
Plant fatty acid; Acetyl-CoA carboxylase; Desaturase; Fatty acid elongation; Fatty acid modification; Lipid transfer protein (Harwood, J.L. (1301) 7)

Fatty acid uptake and esterification
L-cell; Fatty acid binding protein; Oleic acid; *cis*-Parinaric acid; Fluorescence; (Liver) (Murphy, E.J. (1301) 191)

Fatty-acyl distribution
Glycolipid; Glucuronopyranosyldiacylglycerol taurineamide; Taurine; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1302) 167)

Fe
Iron loading; Iron deficiency; Copper; ^{64}Cu-uptake; Neonatal tissue development; (Rat) (Crowe, A. (1291) 53)

Fe(II)
Cytochrome *c*; Oxidation; Ultrasound (Barteri, M. (1296) 35)

Fenton's reagent
Parkinson's disease; Dopamine; 6-Hydroxydopamine; Iron(III); Iron(II); Manganese(II); Nicotine (Linert, W. (1316) 160)

Ferredoxin
Glutamate synthase; (*Synechocystis* sp. PCC 6803); (*Anabaena* sp. PCC 7120) (Schmitz, S. (1277) 135)

Molecular cloning; Iron-sulfur; Lipopolysaccharide; Initiation; (*Chromatium vinosum*) (Moulis, J.-M. (1308) 12)

Ferredoxin–ferredoxin-NADP$^+$ reductase interaction
*pet*H gene; Overexpression; (*Anabaena*); (*E. coli*) (Martínez-Júlvez, M. (1297) 200)

Ferritin
Cytochrome *P*-450 inducer; Microsome; Reactive oxygen species; Superoxide (Puntarulo, S. (1289) 238)

Ascorbate; LDL; Lipoprotein oxidation; Atherosclerosis; (Iron) (Dai, L. (1304) 223)

Brain; Aluminum (San-Marina, S. (1310) 277)

Ferrochelatase
Erythropoietic protoporphyria; Splicing mutation; Missense mutation (Wang, X. (1316) 149)

Ferulic acid
Fluorescence; Blue-green fluorescence; Decay-associated spectrum; (Leaf epidermis) (Morales, F. (1273) 251)

c-*Fes*
Promoter region; Transcription initiation; Negative regulatory element; TF-1 cell; K562 cell; Myeloid leukemia cell (He, Y. (1306) 179)

Fetal tissue
Topoisomerase II; Expression site; mRNA; In situ hybridization (Zandvliet, D.W.J. (1307) 239)

F_0F_1-ATP synthase
H^+/ATP coupling ratio; Chloroplast (Berry, S. (1276) 51)

F_0F_1 complex
N,*N*′-Dicyclohexylcarbodiimide; ATP synthase; Chromatophore (Zanotti, F. (1276) 80)

4F2 gene
Cationic amino acid transport; Amino acid transport; Peripheral blood mononuclear cell; H13 gene; Antisense oligonucleotide; Oligonucleotide; (Human) (Chen, S. (1284) 1)

FGF
Splicing; mRNA; Growth factor (Hattori, Y. (1306) 31)

Fibrate
Fatty acid; Gene expression; Hypolipidemic drug; Lipid metabolism; Nuclear hormone receptor; PPAR; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

Fibril formation
Dimethylnitrosamine; Hepatic fibrosis; Fibrosis; Liver collagen; Collagen (George, J. (1292) 215)

Fibrinogen
Fast phase aggregation; Immunoglobulin G; Plasma protein; (Human erythrocyte) (Game, L. (1291) 138)

Plasmin; Calcium; Monoclonal antibody (Odrljin, T.M. (1298) 69)

Haptotaxis; Chemotaxis; $\alpha_v\beta_3$ Integrin; Vitronectin (Senger, D.R. (1314) 13)

Fibroblast
Potassium ion transport; Insulin receptor; Insulin; Cotransporter, $Na^+/K^+/Cl^-$; ATPase, Na^+/K^+-; (Human) (Longo, N. (1281) 38)

Diacylglycerol; Ceramide; Ras; Molecular species; Phospholipid (Laurenz, J.C. (1299) 146)

cyclic AMP; HDL binding; (Human skin) (Middleton, A. (1302) 84)

LDL; DiI-LDL; DiI-acetyl-LDL; Macrophage; Hypercholesterolemia, familial; Fluorescence; Cholesterol (Teupser, D. (1303) 193)

Diadenosine polyphosphate; Calcium ion, cytosolic free; Phospholipase C; (Human) (Tepel, M. (1312) 145)

3-ketoacyl-CoA thiolase; Disorder; Peroxisome; Rhizomelic form of chondrodysplasia punctata (Motley, A.M. (1315) 153)

Calcium; Alzheimer's disease; Bradykinin; Mitochondrion (Gibson, G.E. (1316) 71)

Fibroblast growth factor
Serum starvation; Biological potential; Primary murine embryonic fibroblast; cDNA sequence (Shin, J.T. (1312) 27)

Senescence; Fibroblast growth factor receptor-1; IL-1α; Endothelial cell (Garfinkel, S. (1314) 109)

Fibroblast growth factor receptor-1
Senescence; Fibroblast growth factor; IL-1α; Endothelial cell (Garfinkel, S. (1314) 109)

Fibronectin
Cartilage; Chondrogenesis; Alternative splicing; Type III-9 repeat (Gehris, A.L. (1311) 5)

Fibronectin fragment; Metalloproteinase; Cytokine; Cartilage (Bewsey, K.E. (1317) 55)

Fibronectin fragment; Cartilage; Chondrocyte; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 134)

Fibronectin fragment; Cartilage; Chondrocyte; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 143)

Fibronectin fragment
Fibronectin; Metalloproteinase; Cytokine; Cartilage (Bewsey, K.E. (1317) 55)

Fibronectin; Cartilage; Chondrocyte; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 134)

Fibronectin; Cartilage; Chondrocyte; Antioxidant; Repair; Chondrolysis (Homandberg, G.A. (1317) 143)

Fibrosis
Dimethylnitrosamine; Hepatic fibrosis; Liver collagen; Collagen; Fibril formation (George, J. (1292) 215)

Collagen; Bleomycin; Collagen cross-linking; Hydroxylysine (Gerriets, J.E. (1316) 121)

Filipin III
DSC; Titration calorimetry; Circular dichroism; Multilamellar vesicle; Dimyristoylphosphatidylcholine; Lipid bilayer (Milhaud, J. (1278) 223)

Fish oil
Hypertriglyceridemia; ($n-3$) Fatty acid; Sucrose-rich diet; Dyslipidemia; Glucose intolerance (Lombardo, Y.B. (1299) 175)

Polyunsaturated fatty acid diet; Lipogenesis gene; Adipose tissue; Hypertriglyceridemia; (Rat liver) (Šeböková, E. (1303) 56)

5′ Flanking sequence
Aging; Calcium-binding protein; Genomic DNA; Senescence marker protein-30 (SMP30); Transcription initiation site; (Mouse liver) (Fujita, T. (1308) 49)

Flavocytochrome *P*-450 BM3
Multidomain enzyme; Structural stability; Folding process; Spectroscopic analysis; (*E. coli*) (Munro, A.W. (1296) 127)

Flavoprotein
D-Aspartate oxidase; D-Aspartate induction; Malonate inhibition; Yeast (Yamada, R.-h. (1294) 153)

4-Aminobenzoate hydroxylase; cDNA cloning (Tsuji, H. (1309) 31)

Fli-1
Promoter; CAP site; H-DNA; Cas-Br-E integration; Gene regulation; Viral activation (Barbeau, B. (1307) 220)

Flip-flop
Erythrocyte membrane; Anionic phospholipid; Anion transport; Band 3; Flippase (Serra, M.V. (1282) 263)

Flippase
Erythrocyte membrane; Anionic phospholipid; Flip-flop; Anion transport; Band 3 (Serra, M.V. (1282) 263)

Fludarabine
Drug delivery; 2-fluoro-ara-AMP metabolism; (Human erythrocyte) (Fraternale, A. (1291) 149)

Fluid flow
Cornea; Endothelium; Bicarbonate; Amiloride; Acetazolamide (Wigham, C.G. (1279) 104)

Fluidity
Alpha-toxin; Toxin; Liposome; Phospholipase C; Phospholipid; (*C. perfringens*) (Nagahama, M. (1280) 120)

Chondrocyte; Estrogen; Arachidonic acid turnover; Membrane; Matrix vesicle; Estradiol 17β (Schwartz, Z. (1282) 1)

Fluid-phase endocytosis
Endocytosis; Membrane physical state; Epithelium; MDCK cell; LLC-PK1 cell (Mamdouh, Z. (1282) 171)

Fluo-3
Platelet; Thrombin; ADP; Calcium imaging; Calcium; Cytoplasmic; (Human) (Tao, J. (1311) 164)

Fluorescence
Blue-green fluorescence; Decay-associated spectrum; Ferulic acid; (Leaf epidermis) (Morales, F. (1273) 251)

Lipid bilayer; *trans*-Parinaric acid (Castanho, M. (1279) 164)

Laurdan; Generalized polarization; Polarization; Lipid phase; Membrane; (Human spermatozoon) (Palleschi, S. (1279) 197)

Voltage-sensitive styryl dye; Styryl dye; Membrane fragment; Rubisco; ATPase, Na^+/K^+-; Association constant (Frank, J. (1280) 51)

Sodium–calcium ion exchange; Chlorotetracycline; Calcium ion flux; Plasma membrane; Synaptosome (García-Martín, E. (1280) 257)

Sulfatide; pH-sensitive liposome; Phosphatidylethanolamine (Wu, X. (1284) 13)

Carvedilol; Lipid peroxidation; Drug–membrane interaction; Liposome binding; Scanning calorimetry (Cheng, H.-Y. (1284) 20)

Anesthetic-protein interaction; Halothane; Supersecondary structure; Photoaffinity labeling (Johansson, J.S. (1290) 63)

Glutathione *S*-transferase; Tryptophan; Ligand binding; Structure; (Rat) (McCarthy, R.M. (1293) 185)

Tryptophanase; Pyridoxal phosphate; Quasi-substrate; Circular dichroism; Mutant enzyme; (*E. coli*) (Ben-Kasus, T. (1294) 147)

Troponin C; Quenching; Conformational change; (Heart) (Dong, W.-J. (1295) 139)

Ceruloplasmin; Molten globule; Circular dichroism; Second derivative spectroscopy (De Filippis, V. (1297) 119)

Actin; Tropomyosin; Annealing (Teubner, A. (1297) 214)

L-cell; Fatty acid binding protein; Oleic acid; *cis*-Parinaric acid; Fatty acid uptake and esterification; (Liver) (Murphy, E.J. (1301) 191)

LDL; DiI-LDL; DiI-acetyl-LDL; Fibroblast; Macrophage; Hypercholesterolemia, familial; Cholesterol (Teupser, D. (1303) 193)

Fluorescence anisotropy
Ubiquinone; Plastoquinone; Ubiquinol; Plastoquinol; Diphenylhexatriene (Skowronek, M. (1280) 115)

Membrane vesicle; Cationic lipid; Headgroup-chain linkage; Cholesterol; Phase transition (Bhattacharya, S. (1283) 21)

Retinoid; Retinol-binding protein; Transthyretin; Macromolecular interaction (Malpeli, G. (1294) 48)

Fluorescence emission
8-Azapurine; Nucleoside; Purine nucleoside phosphorylase; Substrate; Inhibitor (Wierzchowski, J. (1290) 9)

Fluorescence emission anisotropy
Tryptophan residue; Orosomucoid (Albani, J.R. (1291) 215)

Fluorescence energy transfer
Calmodulin; Heme; Trifluoperazine; Synergy (Leclerc L'Hostis, E. (1313) 209)

Fluorescence lifetime
RNase A; Active site; Denaturation; Conformational change; Pyridoxal 5′-phosphate; Polarization; (Bovine pancreas) (Xiao, G.-S. (1294) 1)

Fluorescence measurement
Antenna organization; Antenna size (Hecks, B. (1274) 21)

Fluorescence measurements
Equinatoxin II; Toxin; A pore forming protein; Conformation; Protein denaturation (Malavašič, M. (1280) 65)

Fluorescence microscopy
Air/water interface; Cholesterol; Liquid; Miscibility; Phospholipid; Ternary mixture (Hagen, J.P. (1280) 169)

Neurotensin; Opioid receptor affinity; Multivalent ligand; Liposome; Neurotensin-lipid conjugate (Zhao, J. (1282) 249)

Fluorescence polarisation
HDL; Phospholipolysis; Sphingomyelin degradation; Electron spin resonance; (Human) (Lottin, H. (1301) 127)

Fluorescence probe
Surface potential; Membrane hydration; Hydrodynamic shear boundary; Membrane curvature; Monovalent cation association (Kraayenhof, R. (1282) 293)

Oxidative stress; *tert*-Butyl hydroperoxide; Phospholipid; *cis*-Parinaric acid; HPLC (Ritov, V.B. (1283) 127)

Fluorescence quenching
Multidrug resistance; P-glycoprotein; Glycoprotein; Pump kinetics; Daunorubicin (Ghauharali, R.I. (1278) 213)

Fluorescence spectroscopy
Lindane; Lipid bilayer; Permeability; Phase transition (Sabra, M.C. (1282) 85)

Corneal protein; Keratan sulfate proteoglycan; Red-edge excitation shift (Uma, L. (1294) 8)

Fluorescent probe
Ethylazinphos; Cholesterol; Membrane organization; Partition coefficient (Videira, R.A. (1281) 65)

Fluorescent pyrene lipid
Microbial lipase; Inhibition; Phosphonate; Triacylglycerol analog; Stereoselectivity (Stadler, P. (1304) 229)

Fluoride
ADP-ribose, free; ADP-ribosylation; Glycation; Nitric oxide; (*Artemia*); (Rat liver) (Fernández, A. (1290) 121)

Fluorimetric assay
Familial amyloidotic polyneuropathy; Transthyretin variant; Amyloid formation; Kinetic study; Sulfate (Bonifácio, M.J. (1316) 35)

Fluorinated liposome
Perfluoroalkylated di-*O*-alkylglycerophosphocholine; Phospholipid; Liposome; Vesicle; Membrane; Permeability (Ravily, V. (1285) 79)

Fluorinated surfactant
Perfluoroalkylated sugar; D-Glycose (alkyl phosphate); Glycophospholipid; Liposome; Drug delivery; Membrane permeability (Guillod, F. (1282) 283)

Fluorogenic substrates
Human β-glucosidase; Gaucher disease (Mikhaylova, M. (1317) 71)

Fluoroshikimate
Shikimate transport; Antibacterial agent; (*shiA*) (Jude, D.A. (1279) 125)

5′-*p*-Fluorosulfonylbenzoyladenosine
Active site; Cholinergic; Apyrase; (*Torpedo*) (Martí, E. (1282) 17)

Fluorothymidine
Drug targeting; Azidothymidine; HIV; Receptor; Scavenger; Macrophage (Mankertz, J. (1317) 233)

Fluorotryptophan resistant *trpS* mutant
trpS mutant; Thermosensitive *trpS* mutant; (*B. subtilis*) (Chow, K.-C. (1309) 42)

FMR1 gene
mRNA; RNA-protein binding; 5′-Untranslated region (Iber, H. (1309) 167)

Focal adhesion kinase
Association; Localization; Phosphoinositide 3-kinase; Glutathione *S*-transferase fusion protein (Bachelot, C. (1311) 45)

Platelet; Tyrosine phosphorylation; Prostaglandin E_1; Thrombin; ADP (Vostal, J.G. (1314) 1)

Fodrin
Polyethyleneglycol 8000; Hepatic system A; Arkyrin; (Madine Darby canine kidney cell) (Handlogten, M.E. (1282) 107)

Folate-binding protein
Placenta; Plasma membrane; (Rat) (Da Costa, M. (1292) 23)

Drug targeting; Endocytosis; Caveolae; pH determination (Lee, R.J. (1312) 237)

Folate regulation
(*A. nidulans*) (Lewandowska, I. (1290) 89)

Folate transport
Intestinal folate transport; cDNA library; DNA sequencing; (*Xenopus* oocyte) (Said, H.M. (1281) 164)

Folding
Glyoxysome; Mitochondrion; Isoenzyme; Chaperone; (*Citrullus vulgaris*) (Gietl, C. (1274) 48)

Folding process
Multidomain enzyme; Flavocytochrome *P*-450 BM3; Structural stability; Spectroscopic analysis; (*E. coli*) (Munro, A.W. (1296) 127)

Folylpolyglutamate synthetase
cDNA (murine); L1210 (Spinella, M.J. (1305) 11)

Food intake
High fat; Hybridization, in situ; Lipase; Enterostatin; Procolipase; (Pancreas); (Rat stomach) (Sörhede, M. (1301) 207)

Formate
Photosynthesis; Photosystem II; Chloroplast; Site-directed mutagenesis; Membrane protein; Bicarbonate; (*Chlamydomonas reinhardtii*) (Hutchison, R.S. (1277) 83)

Formate binding
Cytochrome oxidase; Fast conformer; Slow conformer (Chang, K.-T. (1277) 237)

Formate inhibition
Photosystem II; Bicarbonate; Oxygen evolution (Wincencjusz, H. (1273) 1)

***N*-Formylmethionylleucyl phenylalanine**
C_2-ceramide; Superoxide anion; Polymorphonuclear leukocyte; Protein kinase C; Phospholipase D; (Human) (Richard, A. (1299) 259)

N^{10}-Formyltetrahydrofolate synthetase
Site-directed mutagenesis; Substrate binding; Enzyme mechanism; (*C. cylindrosporum*) (Kounga, K. (1296) 112)

Fourier-transform infrared spectroscopy
Manganese-stabilizing protein; Secondary structure; Thermostability; Circular dichroism (Sonoyama, M. (1297) 167)

Free calcium
Diallyl disulfide; Cell growth; ATPase, Ca^{2+}- (Sundaram, S.G. (1315) 15)

Free fatty acid
Phospholipase A_2; Arbutin; Liposome; Dehydration; Anhydrobiosis (Oliver, A.E. (1302) 69)

Human neutrophil; Lysosomal enzyme; Degranulation; Superoxide generation; Myeloperoxidase (Ishida-Okawara, A. (1314) 239)

Free radical
Photosensitization; Singlet oxygen; Plasma membrane; Photodynamic therapy; Membrane potential; Proline transport; Lipid oxidation (Kochevar, I.E. (1280) 223)

Ion channel; Alamethicin; Ionizing radiation; Tryptophan (Zeidler, U. (1281) 73)

Caffeine; Singlet oxygen; Lipid peroxidation; Antioxidant; (Rat liver microsome) (Devasagayam, T.P.A. (1282) 63)

Peroxynitrite; Erythrocyte; Membrane; Glutathione; Thiol group; ATPase (Soszyński, M. (1291) 107)

Isotorachrysone; Lipid peroxidation; Peroxyl radical; Superoxide anion; Hydroxyl radical; LDL; Antioxidant (Hsiao, G. (1298) 119)

Oxidant; Inflammation; Selectin expression; Integrin expression (Fraticelli, A. (1310) 251)

Oxidant; Inflammation; Integrin expression; Ischemia; Reperfusion injury (Serrano Jr., C.V. (1316) 191)

Free-radical scavenger
Lipid peroxidation; Iron chelation; Antioxidant; Polyphenol, green tea; EPR; Synaptosome; (Rat) (Guo, Q. (1304) 210)

Freeze-dry
Liposome; Glucose; Maltodextrin; Saccharide; DSC; Lyophilization (Suzuki, T. (1278) 176)

Freeze-fracture
Nematode; Cuticle; Non-bilayer structure; Hexagonal II phase; (*T. spiralis*) (Gounaris, K. (1281) 91)

Bilayer ripple; Pretransition; $P_{\beta'}$-phase; Electron microscopy (Meyer, H.W. (1302) 138)

Freeze-fracture electron microscopy
Liposome; Tetanus toxoid; Immunoglobulin G; Covalent coupling; Microfluidization (Skalko, N. (1301) 249)

Fructose
1,5-Anhydroglucitol; Mannose; Sugar transport; Renal tubule (Yamanouchi, T. (1291) 89)

Fructose-1,6-bisphosphatase
Complementary chromatic adaptation; Heterotrophic growth; Glucose-6-phosphate dehydrogenase; ATPase, F_0F_1-; Phycobilin; Thioredoxin (Austin, P.A. (1277) 141)

Fructose-2,6-bisphosphate
Glycogen synthesis; Glycolysis; (Rat hepatocyte) (Flückiger-Isler, R. (1311) 77)

D-Fructose phosphorylation
B cell glucokinase; D-Glucose; D-Mannose (Sener, A. (1312) 73)

Fruiting body
Amanitaceae; Mushroom; Lectin; (*Amanita pantherina*) (Zhuang, C. (1291) 40)

Fruit ripening
Secretion; *Rab11/YPT3*; GTPase; (*Mangifera indica* L.) (Zainal, Z. (1314) 187)

FTIR
Pressure effect; DPPC; Cholesterol; Multilamellar vesicle (Reis, O. (1279) 5)

Membrane; Lipid conformation; Lipid; Mycoplasma (Moore, D.J. (1279) 49)

α-Tocopherol; Phosphatidylserine; DSC; Calcium-45 ion binding (Sánchez-Migallón, M.P. (1281) 23)

Model membrane; Membrane fluidity; Odorant; β-Ionone; Menthone; NMR, ^{2}H- (Bouchard, M. (1282) 233)

Phospholipid bilayer; Membrane biophysics; Membrane structure; Phase transition (Chia, N.-C. (1283) 141)

Galactolipid; Liposome; Melittin; Peptide–lipid interaction (Hincha, D.K. (1284) 162)

Recombinant human granulocyte-macrophage colony-stimulating factor; Disulfide reduction; Thermal denaturation; β-Aggregation (Jiang, H. (1294) 121)

FTIR difference spectroscopy
Bacterial photosynthetic reaction center; Photosynthetic reaction center; Isotope labeling; Quinone electron acceptor (Breton, J. (1275) 84)

FTIR spectroscopy
Beta peptide; Circular dichroism; Toxicity; PC 12 cell; Secondary structure (Buchet, R. (1315) 40)

Collagen; Extracellular matrix; Heart failure; Myocardial infarction; Near infrared spectroscopy (Liu, K.-Z. (1315) 73)

Fumarate reductase
Complex II; Cytochrome *b*; cDNA; (*Ascaris suum*) (Saruta, F. (1276) 1)

Fumonisin
Phosphatidylethanolamine; CHO-K1 cell; Ovary; (Chinese hamster) (Badiani, K. (1304) 190)

Functional alteration
Sarcoplasmic reticulum; Calcium pump; ATPase, Ca^{2+}-; Duchenne's disease; Dystrophy; (Muscle) (Kargacin, M.E. (1290) 4)

Fungus
Laccase; Redox potential; Kinetics; Stability; Bilirubin oxidase (Xu, F. (1292) 303)

Fura-2
Platelet; Umbilical vein; Calcium ion; Endothelial cell; (Human) (Van IJzendoorn, S.C.D. (1311) 64)

Chondrocyte; Intracellular calcium; Histamine; Cartilage (Horwitz, E.R. (1313) 95)

Furin
Lactase-phlorizin hydrolase; Proprotein convertase; (Intestine) (Wüthrich, M. (1311) 199)

Fusion
Influenza; Phosphatidylserine; Asymmetry; Hemagglutinin; Hemolysis; Erythrocyte (Pak, C.C. (1278) 98)

Liposome; Jurkat cell; Diphtheria toxin fragment A; Poly(ethylene oxide)-bearing lipid; Cytochalasin B (Higashi, N. (1285) 183)

Fusion protein
Galectin-1; Lectin; Cell growth control; Proteinase (Adams, L. (1312) 137)

Fusogenic lipid
Liposome–cell fusion (El Baraka, M. (1280) 107)

G

$GABA_C$ receptor
γ-Aminobutyric acid receptor; cDNA, ρ3 (Ogurusu, T. (1305) 15)

Gal3
Trehalose; UDPG-pyrophosphorylase; $MAL4^C$; Catabolite repression (Dutra, M.B. (1289) 261)

Galactolipid
FTIR; Liposome; Melittin; Peptide–lipid interaction (Hincha, D.K. (1284) 162)

Digalactosyldiacylglycerol; Digestion; Monogalactosyldiacylglycerol; Pancreatic lipase-related protein; Sulfoquinovosyldiacylglycerol (Andersson, L. (1302) 236)

Galactose
Sodium; Glucose; Symport; (*V. parahaemolyticus*) (Sarker, R.I. (1279) 149)

Galactose dehydrogenase
β-Galactosidase; Bifunctional enzyme; Gene fusion; Linker region; (*E. coli*) (Carlsson, H. (1293) 154)

α-Galactosidase
α-*N*-Acetylgalactosaminidase; Site-directed mutagenesis; Tryptophan; (*Pichia pastoris*) (Zhu, A. (1297) 99)

β-Galactosidase
Liposome; Reporter gene; Gene expression; LacZ; Ultrastructure; Cytofectin; Atomic force microscopy (Wheeler, C.J. (1280) 1)

Enzyme; High pressure denaturation; Physical environment (Degraeve, P. (1292) 61)

Galactose dehydrogenase; Bifunctional enzyme; Gene fusion; Linker region; (*E. coli*) (Carlsson, H. (1293) 154)

Photoreversible thiol label; (*E. coli*) (Golan, R. (1293) 238)

Galectin-1
Lectin; Fusion protein; Cell growth control; Proteinase (Adams, L. (1312) 137)

Gamma irradiation
Liposome; Chemical stability; Physical stability; DSC; Thin-layer chromatography/fast atom bombardment mass spectrometry; Degradation (Zuidam, N.J. (1280) 135)

Ganglioside
Sphingomyelin; Glucosylceramide; Quartz crystal microbalance; Air/water interface monolayer; Influenza A virus (Sato, T. (1285) 14)

Monocyte; Antigen presentation; Immunosuppression (Heitger, A. (1303) 161)

Serotonin 1A; Nutrient deprivation; Stress induction; Neuronal differentiation (Singh, J.K. (1310) 201)

Lens; Human senile cataract; Sialyl-Lewis^x (Ogiso, M. (1315) 29)

Platelet; Integrin; Adhesion (Valentino, L.A. (1316) 19)

GAP
Ral; Ras; GTP-binding protein; GTPase activating protein; (Human platelet) (Bhullar, R.P. (1311) 181)

Gap junctional intercellular communication
Pervanadate; Diperoxovanadate; Connexin43; Phosphotyrosine; Protein-tyrosine phosphatase inhibitor (Mikalsen, S.-O. (1290) 308)

Gastric carcinoma
Protein phosphorylation; Calmodulin; Serine/threonine protein kinase; CaM kinase (Ohta, H. (1317) 175)

Gastric cytoprotection
Nitric oxide; Hydrogen peroxide; Reactive oxygen metabolite; Mucous glycoprotein; Prostaglandin E_2; (Rabbit gastric mucosal cell) (Hata, Y. (1290) 257)

Gastric mucosa
Muscarinic receptor; In situ hybridization; Parietal cell; Brain (Helander, K.G. (1312) 158)

Gastrin
Constitutive secretion; Regulated secretion; Basal secretion; Progastrin (Varro, A. (1313) 101)

Gastrin-releasing peptide
Endometrium; Bombesin; Pregnancy; Constitutive secretion; (Sheep) (Giraud, A. (1296) 189)

Gating
Sarcoplasmic reticulum; Calcium ion pump; Thapsigargin; Intrinsic uncoupling (Davidson, G.A. (1289) 187)

Gaucher disease
Human β-glucosidase; Fluorogenic substrates (Mikhaylova, M. (1317) 71)

Cytokine; Tumor necrosis factor (Michelakakis, H. (1317) 219)

GC-MS
Cyanobacterium; Deuterated biomass; Lipid composition; NMR, solid state, ^{2}H- and ^{31}P-; FAB-MS; LSIMS; (*S. maxima*) (Tropis, M. (1284) 196)

Particle beam LC-MS; Differential scanning calorimetry; X-ray diffraction; Surface balance; Phase transition (Norberg, P. (1299) 80)

G1cNAc transferase
Golgi; Marker enzyme; Nucleotidyldiphosphatase; Membrane protein; (*D. discoideum*) (Capasso, J.M. (1281) 15)

Gelatin
Cleavage site; Collagen; Gelatinase; Kinetics; Peptide (Xia, T. (1293) 259)

Gelatinase
Neutrophil; Endothelial cell; Tissue inhibitor of metalloproteinase; Zymography; RT-PCR; (Human umbilical vein) (Zaoui, P. (1290) 101)

Cleavage site; Collagen; Gelatin; Kinetics; Peptide (Xia, T. (1293) 259)

Dideoxy sequencing; PCR; Northern blot analysis; Homology; (Rabbit) (Matsumoto, S.-i. (1307) 137)

Gelatinase B
Protein kinase C; Lipopolysaccharide; *trans*-Retinoic acid (Houde, M. (1310) 193)

Gel chromatography
Postprandial lipemia; Remnant lipoprotein metabolism; Chylomicron; Triglyceride; Retinyl palmitate (Orth, M. (1303) 22)

Gel display
Hepatocellular carcinoma; Tumor marker; Subtractive-hybridization (Wu, C.-G. (1315) 169)

Gel filtration (size exclusion)
Proteinase ECP 32; Metalloproteinase; Purification; Characterization; Ion-exchange chromatography; (*E. coli*) (Matveyev, V.V. (1296) 55)

Gel phase
Lipid bilayer; Phosphatidylcholine; X-ray scattering (Sun, W.-J. (1279) 17)

Gel retardation
Kallikrein; Kallikrein-binding protein; Serpin; Promoter activity; Hypertension; (Rat); (Kidney) (Ma, J.-x. (1307) 285)

Gel retardation assay
C2C12; Negative transcription factor; Transfection; In vivo footprinting (Ikeda, K. (1308) 67)

Geminate kinetics
Heme pocket; Calmodulin; Melittin (Leclerc-L'Hostis, E. (1293) 140)

Gender difference
Stearoyl-CoA desaturase 1 gene; Liver; (Mouse) (Lee, K.N. (1304) 85)

Gene
S100 protein family; cDNA; Trinucleotide repeat (Zimmer, D.B. (1313) 229)

Gene cloning
Trehalose; Maltooligosyltrehalose; Nucleotide sequence; Operon; (*Arthrobacter*) (Maruta, K. (1289) 10)

Trehalose; Maltose; Trehalose synthase; Nucleotide sequence; (*Pimelobacter*) (Tsusaki, K. (1290) 1)

Trehalose; Maltooligosyltrehalose; Nucleotide sequence; (*Sulfolobus*) (Maruta, K. (1291) 177)

Gene conversion
Somatic mutation; V gene; DNA context; Immunoglobulin (Rogozin, I.B. (1306) 171)

P-glycoprotein; Short interspersed repetitive element; Multigene family; Evolution (Childs, S. (1307) 205)

Gene delivery
Gene therapy; Liposome (Hagstrom, J.E. (1284) 47)

Gene engineering
Peptide synthesis; Circular dichroism; Alpha helix; De novo design; Hydrophobic interaction (Kojima, S. (1294) 129)

Gene evolution
cDNA cloning; Teleost; Nucleotide sequence; Pituitary hormone (Chan, Y.H. (1307) 8)

Gene expression
Liposome; Reporter gene; LacZ; β-Galactosidase; Ultrastructure; Cytofectin; Atomic force microscopy (Wheeler, C.J. (1280) 1)

$G_{\alpha q}$ protein; Nucleotide sequence; cDNA; Tissue distribution; (Human) (Chen, B. (1281) 125)

Thymidine kinase; Immunoblotting; α-Adrenergic regulation; Liver regeneration; Partial hepatectomy; (Rat) (Tsukamoto, I. (1290) 267)

Cardiotoxin; cDNA sequence; (*Naja naja atra*) (Chang, L.-S. (1295) 1)

Prostaglandin; Prostaglandin synthase 2; Icosanoid; Prostanoid (Herschman, H.R. (1299) 125)

Fatty acid; Fibrate; Hypolipidemic drug; Lipid metabolism; Nuclear hormone receptor; PPAR; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

Phospholipase A_2, non-pancreatic secreted; Gene synthesis; (Human); (*E. coli*) (Othman, R. (1303) 92)

Lovastatin; Scavenger receptor; THP-1 cell; Macrophage; (Human) (Umetani, N. (1303) 199)

Guanylyl cyclase C; Intestine; Caco-2 (Mann, E.A. (1305) 7)

Crystallin; Eye; Lens; Transgenic mouse (Sax, C.M. (1305) 49)

Transcription; β_2-Adrenergic receptor; Transfection; Luciferase; Reporter gene (McGraw, D.W. (1305) 135)

Nucleosome; 4′,6-Diamidino-2-phenylindole; DNA (Caneva, R. (1306) 117)

Sarkosyl; Pre-initiation complex; Transcription; Adenovirus major late promoter; RNA polymerase II (Coda-Zabetta, F. (1306) 194)

Transcription; Enhancer; cyclic AMP; Thyroglobulin (Berg, V. (1307) 35)

Thyroid; cyclic AMP; Pax 8 (Van Renterghem, P. (1307) 97)

Ceruloplasmin; Immune cell; Lymphocyte; Copper (Pan, Y. (1307) 233)

Secretion; Methylotrophic yeast (Sakai, Y. (1308) 81)

NAD^+-dependent 15-hydroxyprostaglandin dehydrogenase; cDNA; Lung; (Mouse) (Matsuo, M. (1309) 21)

Nitrate reductase; Sequence analysis; (*Penicillium chrysogenum*) (Haas, H. (1309) 81)

Ornithine decarboxylase; Opioid; U-50488H (Flamigni, F. (1311) 204)

Cytidine deaminase; Cloning; 1α,25-Dihydroxyvitamin D_3 (Watanabe, S.-I. (1312) 99)

Lymphocyte activation; Cell cycle; Differential display; Redox control; Oxidative signaling; Reactive oxygen species (Goldstone, S.D. (1314) 175)

Carcinoma; Oncocytoma; mitochondrial DNA; Oxidative phosphorylation (Heddi, A. (1316) 203)

Gene expression control
atp operon; mRNA stability; Riboendonuclease; Riboexonuclease; Destabilizing element; (*E. coli*) (Schramm, H.-C. (1307) 162)

Gene fusion
β-Galactosidase; Galactose dehydrogenase; Bifunctional enzyme; Linker region; (*E. coli*) (Carlsson, H. (1293) 154)

Gene localization
Bacteriophage bf; DNA, single-stranded; Protein–ssDNA complex (Chen, W.-P. (1309) 147)

Generalized polarization
Laurdan; Polarization; Fluorescence; Lipid phase; Membrane; (Human spermatozoon) (Palleschi, S. (1279) 197)

Gene regulation
Zinc finger gene; Organ of Corti; Retina (Rivolta, M.N. (1306) 127)

Fli-1; Promoter; CAP site; H-DNA; Cas-Br-E integration; Viral activation (Barbeau, B. (1307) 220)

Endothelium; Nitric oxide; Vascular tone; Hypertension (Gnanapandithen, K. (1308) 103)

Cytosolic calcium; Cell injury; Cell death; Cell signaling (Trump, B.F. (1313) 173)

Gene sequence
Histone gene; DNA; (Mouse) (Brown, V.D. (1306) 17)

Gene *50K*
GTPase; Amino acid sequence; Cotranscription; Reverse transcription-polymerase chain reaction; (*Synechocystis* sp. PCC 6803) (Geisler, M. (1309) 189)

Gene structure
Interferon; Viral response element; (Antiviral activity); (Rabbit); (Sheep) (Liu, L. (1294) 55)

cDNA cloning; Chromosomal localization; Targeted gene disruption; Leukotriene; Inflammation; Platelet; Macrophage; Epidermis (Funk, C.D. (1304) 65)

rpL9; Ribosomal protein (Mazuruk, K. (1305) 151)

TGF-β superfamily; Activin βC; (Liver) (Lau, A.L. (1307) 145)

Hemoglobin; Myoglobin; Indoleamine dioxygenase; Convergent evolution; (*Sulculus diversicolor*) (Suzuki, T. (1308) 41)

Retinoic acid receptor; 5′-Untranslated region (Toulouse, A. (1309) 1)

Protein phosphorylation; Protein kinase A isoform; Cβ2 gene promoter (Wiemann, S. (1309) 211)

Gene synthesis
Phospholipase A_2, non-pancreatic secreted; Gene expression; (Human); (*E. coli*) (Othman, R. (1303) 92)

Gene targeting
Homologous recombination; DNA transfection; Poly(ADP-ribosylation); Poly(ADP-ribose) polymerase (Waldman, B.C. (1308) 241)

Gene therapy
Gene delivery; Liposome (Hagstrom, J.E. (1284) 47)

Gene transcription
Steroidogenesis; Cytochrome *P*-450; Porcine CYP17; Leydig cell; cyclic AMP; Nuclear protein (Zhang, P. (1307) 73)

Gene transfer
Cationic liposome; Endocytosis; Transfection (Friend, D.S. (1278) 41)

Liposome; Asialofetuin; Amphiphilic compound; Receptor mediation; Hepatocyte; (Rat) (Hara, T. (1278) 51)

Liposome; Opsonization; Positron emission tomography (PET); Drug delivery system (Oku, N. (1280) 149)

Counterion effect; Cationic lipid; Liposome; Transfection; DNA (Aberle, A.M. (1299) 281)

Cationic lipid; (Lung) (Fortunati, E. (1306) 55)

Gene trap
ES cell; *lac*Z-reporter; Expression pattern (Rijkers, T. (1307) 294)

Gene variant
Lipoprotein lipase; Hyperlipidemia; Transfection (Zhang, H. (1302) 159)

Genistein
Tyrosine kinase; Daidzein; Leiomyosarcoma cell; Sodium ion current; Whole-cell voltage clamp; (Uterine smooth muscle) (Kusaka, M. (1278) 1)

Glycolipid biosynthesis; EGF; Sulfatide; Tyrosine kinase inhibitor (Balbaa, M. (1299) 141)

Genomic clone
Centromere protein B; Intronless coding sequence; (Hamster) (Bejarano, L.A. (1307) 21)

Genomic cloning
Eukaryotic initiation factor 2B; Protein synthesis; cDNA; (Rat) (Flowers, K.M. (1307) 318)

Genomic DNA
Aging; Calcium-binding protein; 5′ Flanking sequence; Senescence marker protein-30 (SMP30); Transcription initiation site; (Mouse liver) (Fujita, T. (1308) 49)

Genomic DNA sequence
Mitogen-activated protein kinase; (*Cyprinus carpio*) (Leu, J.-H. (1306) 133)

Genomic DNA sequencing
Melanocortin 1-receptor; (Chicken) (Takeuchi, S. (1306) 122)

Genomic structure
Mel-18; cDNA cloning; Alternative splicing; Overlapping gene (Tetsu, O. (1305) 109)

Geranylgeranyl
Prenylation; Farnesyl; Zaragozic acid; Keratinocyte (MacNulty, E.E. (1289) 41)

Geranylgeranylation
rap gene; *ras*-related gene; GTP-binding protein; Lysine-rich domain; (*P. polycephalum*) (Kozlowski, P. (1305) 29)

Germ cell nuclear factor
Nuclear receptor superfamily; Expression; Testis; Neuronal (Süsens, U. (1309) 179)

GFAP
Intermediate filament; Desmin; S100 protein; Calcium; Epitope (Garbuglia, M. (1313) 268)

G_{M2} ganglioside
Sandhoff disease; β-Hexosaminidase; Lysosomal enzyme (Redonnet-Vernhet, I. (1317) 127)

GH3 cell
Static magnetic field; Calcium channel (Rosen, A.D. (1282) 149)

Giant hemoglobin
Hemoglobin; Linker; Lectin; (*P. aibuhitensis*) (Matsubara, K. (1290) 215)

Glial cell culture
Neurotoxicity; Cyclosporine; NMR; Neuronal cell culture; Tacrolimus (FK506) (Serkova, N. (1314) 93)

Glial fibrillary acidic protein
S100 protein; Inhibitor TRTK-12; Calcium ion; Epitope (Bianchi, R. (1313) 258)

Glioma C_6 cell
Calcium ion influx; Trichosporin-B; Adrenal chromaffin cell; Bovine platelet (Tachikawa, E. (1282) 140)

Gliostatin
Enzyme immunoassay; Platelet-derived endothelial cell growth factor; Distribution; Expression; Reverse transcription polymerase chain reaction (Matsukawa, K. (1314) 71)

α_{2u}-Globulin
Prealbumin; Euglobulin; Partial sequence; Allergen; (Rat urine) (Bayard, C. (1290) 129)

Glomerulonephritis
NF-κB; Pro-inflammatory cytokine; Cell adhesion molecule; Pyrrolidine dithiocarbamate; Reactive oxygen intermediate (Sakurai, H. (1316) 132)

***Glt* x**
Nucleotide sequence; Glutamyl-tRNA synthetase; Aminoacyl-tRNA synthetase; Archaebacterium (Moore, J.A. (1305) 113)

Glucagon
Protein phosphorylation; Rat hepatocyte; Noradrenaline; Vasopressin; Angiotensin II (Aggarwal, S.R. (1310) 284)

Beta cell, pancreatic; Pyridine nucleotide, reduced; Calmodulin antagonist; Calcium ion, intracellular (He, L.-P. (1310) 325)

Glucagon-like peptide-1(7–36)amide
Glucose uptake; cyclic AMP; Adipocyte; (Rat) (Miki, H. (1312) 132)

β-1,6-Glucan
Cell wall protein; Cwp2p; GPI-anchor; (Yeast) (Van der Vaart, J.M. (1291) 206)

β-1,3-Glucanase
Thermoinactivation; Circular dichroism; Nuclear magnetic resonance; (*O. xanthineolytica*) (Parrado, J. (1296) 145)

Glucoamylase
Brush border membrane; α-Glucosidase; Isomaltase; Maltase; Sucrase; (Intestine); (*R. japonica*) (Takesue, Y. (1296) 152)

Glucocorticoid hormone
Cyp2e-1; Hepatocyte culture; Sex hormone (Sakurai, J. (1313) 35)

Glucose
Pancreatic islet; Mitochondrial redox state; Dehydrogenase; Metabolism (Ramirez, R. (1273) 263)

Liposome; Freeze-dry; Maltodextrin; Saccharide; DSC; Lyophilization (Suzuki, T. (1278) 176)

Sodium; Galactose; Symport; (*V. parahaemolyticus*) (Sarker, R.I. (1279) 149)

Platelet; Glycogen; Lactate; ATP (Niu, X. (1291) 97)

$Alpha_2$ cell; Calcium ion oscillation; Insulin; Amino acid; Adrenaline (Berts, A. (1310) 212)

D-Glucose
B cell glucokinase; D-Mannose; D-Fructose phosphorylation (Sener, A. (1312) 73)

Glucose-binding pocket
Sodium/D-glucose cotransport; Brush border membrane; Alkylglucoside; Inhibitor; (Kidney) (Kipp, H. (1282) 124)

Glucose-dependent insulinotropic polypeptide
cDNA; Glucose stimulus; mRNA; (Murine) (Schieldrop, P.J. (1308) 111)

Glucose deprivation
Transcriptional regulation; Stationary phase; (Fission yeast) (Orlandi, I. (1307) 129)

Glucose fatty acid cycle
Skeletal muscle; Adenosine agonist; Insulin action; Diabetes, non-insulin-dependent (Webster, J.M. (1316) 109)

Glucose fluorescent derivative
Glucose uptake; Viability (Yoshioka, K. (1289) 5)

Glucose-induced oscillation
Membrane permeability; Potassium ion; Calcium ion; Plasma membrane; (Pancreatic β-cell) (Eberhardson, M. (1283) 67)

Glucose intolerance
Hypertriglyceridemia; $(n-3)$ Fatty acid; Fish oil; Sucrose-rich diet; Dyslipidemia (Lombardo, Y.B. (1299) 175)

Glucose leakage
Polyethylene glycolated liposome; Liposome size; Vesicle; Permeability coefficient; Poly(ethylene glycol) (Nikolova, A.N. (1304) 120)

Glucose metabolism
Regulatory enzyme; Diabetes; (Rat) (Hotta, K. (1289) 145)

Glucose-6-phosphatase
N-Bromoacetylethanolamine phosphate; Microsome; Inorganic pyrophosphatase; PP_i:glucose phosphotransferase; (Rat liver) (Foster, J.D. (1297) 244)

Glucose-6-phosphate dehydrogenase
Complementary chromatic adaptation; Heterotrophic growth; ATPase, F_0F_1-; Fructose-1,6-bisphosphatase; Phycobilin; Thioredoxin (Austin, P.A. (1277) 141)

Glucose stimulus
cDNA; Glucose-dependent insulinotropic polypeptide; mRNA; (Murine) (Schieldrop, P.J. (1308) 111)

Glucose transport
Sodium ion/glucose symporter; Sequence analysis; Marine bacterium; (*V. parahaemolyticus*) (Sarker, R.I. (1281) 1)

GLUT4 intrinsic activity; Skeletal muscle; Vanadate (Kristiansen, S. (1282) 71)

3-[^{125}I]Iodo-4-azidophenetylamido-7-O-succinyldeacetyl-forskolin; Insulin-regulated glucose transporter GLUT4; Cytochalasin B (Wandel, S. (1284) 56)

Endothelium; Blood-brain barrier; GLUT1 (Gaposchkin, C.G. (1285) 255)

Peroxovanadate; Vanadate; Insulin binding; Insulin degradation; Rat adipocyte (Yu, Z.-W. (1310) 103)

Thyroid hormone; Insulin; GLUT-1; Clone 9 cell; Activation (Shetty, M. (1314) 140)

D-Glucose transport
Proton; SGLT2; Brush border membrane vesicle; (Rat kidney) (Vayro, S. (1279) 111)

Glucose transport activity
Detergent binding model; Detergent-protein complex; Glucose transporter; Membrane protein; Phospholipid; (Human red cell) (Haneskog, L. (1282) 39)

Glucose transporter
Detergent binding model; Detergent-protein complex; Glucose transport activity; Membrane protein; Phospholipid; (Human red cell) (Haneskog, L. (1282) 39)

Glucose uptake
Glucose fluorescent derivative; Viability (Yoshioka, K. (1289) 5)

Glucagon-like peptide-1(7–36)amide; cyclic AMP; Adipocyte; (Rat) (Miki, H. (1312) 132)

α-Glucosidase
Extreme thermophile; Thermophile; Archaebacterium; Thermostabilization; Immobilization; (*Thermococcus*) (Piller, K. (1292) 197)

Brush border membrane; Glucoamylase; Isomaltase; Maltase; Sucrase; (Intestine); (*R. japonica*) (Takesue, Y. (1296) 152)

β-Glucosidase
Cycad; Azoxyglycoside; Cycasin; Transglucosylation (Yagi, F. (1289) 315)

High-temperature and high-pressure bioreactor; Thermostability; Barostability; Protein volume change (Hamon, V. (1294) 195)

Glucosylceramide
Ganglioside; Sphingomyelin; Quartz crystal microbalance; Air/water interface monolayer; Influenza A virus (Sato, T. (1285) 14)

Glucosylceramide synthase induction
Acetylsphingosine effect; Glucosylceramide synthase inhibitor; Sphingomyelinase effect; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; Ceramide elevation; 1-Phenyl-2-palmitoylamino-3-pyrrolidino-1-propanol; D-*threo*-1-Pyrrolidino-1-deoxyceramide (Abe, A. (1299) 333)

Glucosylceramide synthase inhibitor
Glucosylceramide synthase induction; Acetylsphingosine effect; Sphingomyelinase effect; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; Ceramide elevation; 1-Phenyl-2-palmitoylamino-3-pyrrolidino-1-propanol; D-*threo*-1-Pyrrolidino-1-deoxyceramide (Abe, A. (1299) 333)

Glucosyldiacylglycerol
Glycolipid; Glucuronosyldiacylglycerol; Glucuronic acid acylated; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1303) 39)

Glucuronic acid acylated
Glycolipid; Glucosyldiacylglycerol; Glucuronosyldiacylglycerol; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1303) 39)

Glucuronidation
UDP-glucuronic acid; Endoplasmic reticulum; Transport; (Rat liver) (Battaglia, E. (1283) 223)

Retinoic acid; Retinol; UDP-glucuronosyl transferase; Isomerization; Rat liver microsome; Enzyme induction (Genchi, G. (1289) 284)

Glucuronopyranosyldiacylglycerol taurineamide
Glycolipid; Taurine; Fatty-acyl distribution; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1302) 167)

Glucuronosyldiacylglycerol
Glycolipid; Glucosyldiacylglycerol; Glucuronic acid acylated; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1303) 39)

GLUT1
Glucose transport; Endothelium; Blood-brain barrier (Gaposchkin, C.G. (1285) 255)

GLUT-1
Glucose transport; Thyroid hormone; Insulin; Clone 9 cell; Activation (Shetty, M. (1314) 140)

Glutamate
Transport; Sodium ion cotransport; Kinetics; Brush border membrane vesicle; (Rat intestine) (Prezioso, G. (1279) 144)

Chloroquine; NH_4^+; Cell volume; Cytosolic pH; Lysosome (Busch, G.L. (1285) 212)

Glutamate dehydrogenase
o-Phthalaldehyde; Isoindole; Enzyme inactivation; (Bovine liver) (Pandey, A. (1293) 122)

Subunit interaction; Site-directed mutagenesis; (*C. symbiosum*) (Pasquo, A. (1297) 149)

Lactate dehydrogenase; Alcohol dehydrogenase; Malate dehydrogenase; Immobilized NAD^+ (O'Carra, P. (1297) 235)

Glutamate synthase
Ferredoxin; (*Synechocystis* sp. PCC 6803); (*Anabaena* sp. PCC 7120) (Schmitz, S. (1277) 135)

Glutamate transport
Mammary gland; Lactation (Millar, I.D. (1282) 200)

γ-Glutamylcysteine synthetase
Dietary copper; Glutathione (Kim, S. (1313) 89)

γ-Glutamylcysteinylethyl ester
Glutathione synthetase; Esterase; Glutathione (reduced form); Hepatocytes (rat) (Nishida, K. (1313) 47)

γ-Glutamyl transpeptidase
Saccharide moiety; Enzyme kinetics (Dvořáková, L. (1292) 163)

Glutamyl-tRNA reductase
Heme biosynthesis; 5-Aminolevulinic acid; *hemA*; *hemM* (Chen, W. (1309) 109)

Glutamyl-tRNA synthetase
Nucleotide sequence; *Glt*x; Aminoacyl-tRNA synthetase; Archaebacterium (Moore, J.A. (1305) 113)

Glutathione
Peroxynitrite; Erythrocyte; Membrane; Thiol group; ATPase; Free radical (Soszyński, M. (1291) 107)

Oxidative stress; Mixed-disulfide formation; Ocular lens; NMR, ^{13}C- (Willis, J.A. (1313) 20)

Dietary copper; γ-Glutamylcysteine synthetase (Kim, S. (1313) 89)

Development; Reactive oxygen radical; Antioxidant enzyme; DNA ploidy (Sanz, N. (1315) 123)

Glutathione conjugate
ATP-dependent transport; Sulfhydryl modification; (Rat liver) (Matsuda, Y. (1279) 35)

Glutathione peroxidase
Selenium; Selenoprotein P; Cultured cell (Hill, K.E. (1313) 29)

Glutathione-protein mixed disulfide
GSH; Diamide; *tert*-Butyl hydroperoxide; Hemoglobin; Oxidative stress; (Rat) (Di Simplicio, P. (1289) 252)

Glutathione *S*-transferase
ATPase, F_1-; ATPase, H^+-; Subunit reconstitution; Overexpression; Expression plasmid; (*E. coli*) (Shin, Y. (1273) 62)

4-Hydroxynonenal; Lipid peroxidation; Microvessel endothelial cell; (Bovine) (He, N.-G. (1291) 182)

Carbonyl reductase; Peptide mapping; Sequencing; (Chick liver) (Tsai, S.-P. (1292) 289)

Fluorescence; Tryptophan; Ligand binding; Structure; (Rat) (McCarthy, R.M. (1293) 185)

Antioxidant responsive element; Chloramphenicol acetyltransferase; ELISA (Wang, B. (1307) 104)

Nephrotoxicity; MDCK; (Dog kidney); (In vitro) (Bohets, H.H. (1311) 93)

Glutathione *S*-transferase fusion protein
Association; Focal adhesion kinase; Localization; Phosphoinositide 3-kinase (Bachelot, C. (1311) 45)

Glutathione *S*-transferase-π
Monomer; Tumor cell; Platelet; ELISA (Kura, T. (1292) 317)

Glutathione synthetase
γ-Glutamylcysteinylethyl ester; Esterase; Glutathione (reduced form); Hepatocytes (rat) (Nishida, K. (1313) 47)

Glutathione transferase
Subunit distribution; Oxidative stress; Hypoxia; Hyperoxia; (Rat liver) (Di Ilio, C. (1312) 125)

GLUT4 intrinsic activity
Glucose transport; Skeletal muscle; Vanadate (Kristiansen, S. (1282) 71)

Glycation
Albumin; Binding; Renal Brush border membrane vesicle; Aging (Verbeke, P. (1282) 93)

ADP-ribose, free; ADP-ribosylation; Nitric oxide; Fluoride; (*Artemia*); (Rat liver) (Fernández, A. (1290) 121)

LDL; Phospholipase A_2; Cholesteryl ester hydroperoxide; Phosphatidylcholine; Hydroperoxide platelet activating factor acetylhydrolase (Sakurai, T. (1301) 85)

Aspirin; Chaperone; α-Crystallin; Malate dehydrogenase (Heath, M.M. (1315) 176)

Glyceraldehyde-3-phosphate dehydrogenase
Covalent modification; Hibernation; Enzyme isoform; Chromatofocusing; (*J. orientalis*) (Soukri, A. (1292) 177)

Glycerol
Myoglobin; Solvent effect; Conformational change; Small-angle scattering X-ray analysis; Circular dichroism; (Horse heart) (Barteri, M. (1295) 51)

Glycerol-3-phosphate dehydrogenase
Endotoxin; Lipid A disaccharide synthase; (*E. coli*) (Milla, M.E. (1304) 245)

Glycerophosphate acyltransferase
Choline kinase; Cultured cell; Epidermal growth factor; Insulin; Phospholipid; (Human) (Uchida, T. (1304) 89)

Glycine
Serine; NMR; Kidney; Proximal tubule (Cowin, G.J. (1310) 32)

Serine; NMR; Kidney; Proximal tubule (Cowin, G.J. (1310) 41)

Glycoalkaloid
Erythrocyte; Caco-2; Mitochondrion; Cholesterol; Permeabilization; Membrane disruption (Keukens, E.A.J. (1279) 243)

Glycogen
Platelet; Glucose; Lactate; ATP (Niu, X. (1291) 97)

Glycogen storage disease
Erythrocyte membrane; Membrane fluidity; EPR; Fatty acid (Keddad, K. (1315) 61)

Glycogen synthesis
Glycolysis; Fructose-2,6-bisphosphate; (Rat hepatocyte) (Flückiger-Isler, R. (1311) 77)

Glycolipid
Glucuronopyranosyldiacylglycerol taurineamide; Taurine; Fatty-acyl distribution; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1302) 167)

Glucosyldiacylglycerol; Glucuronosyldiacylglycerol; Glucuronic acid acylated; Mass spectrometry; (*H. jannaschiana*) (Batrakov, S.G. (1303) 39)

Glycolipid biosynthesis
EGF; Genistein; Sulfatide; Tyrosine kinase inhibitor (Balbaa, M. (1299) 141)

Glycolysis
Energy parameter; Energy metabolism; Synaptosome (Erecińska, M. (1277) 13)

Ascites tumor cell; Synthetic organic buffer; Substrate-free incubation (Grivell, A.R. (1291) 83)

Glycogen synthesis; Fructose-2,6-bisphosphate; (Rat hepatocyte) (Flückiger-Isler, R. (1311) 77)

Glycopeptide
Agonist; Anomer; Antagonist; Antigen; Phosphopeptide; Secondary structure; Serum stability; Sulfopeptide (Otvos Jr., L. (1313) 11)

Glycophospholipid
Perfluoroalkylated sugar; D-Glycose (alkyl phosphate); Fluorinated surfactant; Liposome; Drug delivery; Membrane permeability (Guillod, F. (1282) 283)

Glycoprotein
Multidrug resistance; P-glycoprotein; Pump kinetics; Fluorescence quenching; Daunorubicin (Ghauharali, R.I. (1278) 213)

Factor H; Thrombospondin; Heparin affinity; Contamination (Carron, J.A. (1289) 305)

P-glycoprotein; Pesticide resistance; Multidrug resistance; (*H. virescens*) (Lanning, C.L. (1291) 155)

Platelet–liposome protein transfer; Protein transfer; Liposome; Serotonin analog; (Human platelet) (Dalençon, F. (1302) 241)

Glycoprotein, multidomain
Thrombospondin 1; Monoclonal antibody; Sulfhydryl–disulfide interchange; Inflammation; Cell-matrix interaction; (Human rheumatoid synovial fluid) (Matthias, L.J. (1296) 138)

Glycosaminoglycan
Proteoglycan; Mesangial cell; Diabetic; (Rat) (Hadad, S.J. (1290) 18)

Elastase; Heparin; Heparan sulfate; (Human leukocyte) (Volpi, N. (1290) 299)

D-Glycose (alkyl phosphate)
Perfluoroalkylated sugar; Glycophospholipid; Fluorinated surfactant; Liposome; Drug delivery; Membrane permeability (Guillod, F. (1282) 283)

Glycosphingolipid
Sulfatide; Erythrocyte; Platelet; (Bovine) (Kushi, Y. (1304) 254)

Glycosphingolipid, lyso-
Dimethylsphingosine; NMR, ^{2}H-; Ceramide; Bilayer (Rigby, A.C. (1284) 129)

Glycosylation
Monocarboxylate transporter; cDNA sequence; Lactate transport; Polymerase chain reaction; (Mouse Ehrlich cell) (Carpenter, L. (1279) 157)

Differentiation; Phospholipid; Mucin; Lectin; Cytoprotection (Dohi, T. (1289) 71)

Phospholipase B; Intestine; (Guinea pig) (Delagebeaudeuf, C. (1303) 119)

PAS-4; Milk fat globule membrane protein; cDNA (Berglund, L. (1309) 63)

***N*-Glycosylation**
Secretion; Pulse-chase analysis; Platelet-derived growth factor; Mitogenesis; Receptor binding (Kaetzel, Jr., D.M. (1298) 250)

Glycosylphosphatidylinositol-anchored protein
Alkaline phosphatase; (*Spirodela oligorrhiza*); (Plant) (Morita, N. (1290) 53)

Glycosyl phosphatidylinositol
Acetylcholinesterase; Membrane anchor; Signal peptide; (*T. californica*) (Bucht, G. (1292) 223)

Glyoxysome
Mitochondrion; Isoenzyme; Chaperone; Folding; (*Citrullus vulgaris*) (Gietl, C. (1274) 48)

cGMP-dependent protein kinase
Protein kinase C; Autophosphorylation; *trans*-Phosphorylation; Phorbol ester; Immunoblot, two-dimensional (Gatti, A. (1313) 111)

Golgi
Marker enzyme; G1cNAc transferase; Nucleotidyldiphosphatase; Membrane protein; (*D. discoideum*) (Capasso, J.M. (1281) 15)

Gonadotropin-releasing hormone
Lutropin; Testosterone; Anterior pituitary cell; (Rat) (Starzec, A.B. (1310) 348)

Gouy-Chapman theory
X-ray diffraction; Ion distribution; Lipid; Membrane electrostatics (Kirchner, S. (1279) 181)

gp120
Anti-HIV peptide; T22; Surface plasmon resonance; CD4; Tachyplesin (Tamamura, H. (1298) 37)

GPI-anchor
Cell wall protein; Cwp2p; β-1,6-Glucan; (Yeast) (Van der Vaart, J.M. (1291) 206)

G protein
Adenylyl cyclase; Guanine nucleotide; Muscarinic receptor; Myocardium (Piacentini, L. (1282) 11)

Isoprenylation; Methylation; Signal transduction; Membrane (Rando, R.R. (1300) 5)

Astrocyte; Mastoparan; Phospholipase C; Phospholipase A_2; Prostaglandin E_2 (Nakahata, N. (1310) 60)

Vasoactive intestinal peptide; Adenylyl cyclase; Peritoneal macrophage; (Rat); (Mouse) (Pozo, D. (1312) 249)

Adenylyl cyclase; Khellin; Ultraviolet A; Pertussis toxin; HeLa cell (Di Stefano, A. (1314) 105)

Pleckstrin; Pleckstrin homology domain; Platelet signaling (Abrams, C.S. (1314) 233)

Adenylyl cyclase; Neutrophil; Signal transduction (Suzuki, T. (1313) 72)

$G_{\alpha q}$ protein
Gene expression; Nucleotide sequence; cDNA; Tissue distribution; (Human) (Chen, B. (1281) 125)

G protein-coupled receptor
cDNA cloning; Loop structure; (HL-60 cell) (Roglić, A. (1305) 39)

P2 purinoceptor; cDNA sequence (Southey, M.C. (1309) 77)

G-protein heterotrimer
Antisense oligonucleotide; Nuclear microinjection; Receptor–G protein interaction (Kalkbrenner, F. (1314) 125)

Gramicidin
Lipid membrane; Deformation free energy; Liquid crystal; Channel lifetime (Ring, A. (1278) 147)

Gramicidin D
Lipid bilayer; Supported lipid bilayer; Impedance spectroscopy; Ion transport (Steinem, C. (1279) 169)

Granulocyte
N-Acetylmuramyl-L-alanine amidase; Monoclonal antibody (Hoijer, M.A. (1289) 57)

Granulocyte-macrophage colony stimulating factor
Platelet activating factor; Acetylhydrolase; Macrophage colony stimulating factor (Dupuis, F. (1311) 27)

Granulosa
Angiotensin II receptor; Theca; (Rabbit ovary) (Féral, C. (1284) 221)

Green algae
Lipid; Carotenoid; Signaling; Stress (Thompson Jr., G.A. (1302) 17)

Green fluorescent protein
NGF-induced differentiation; Transfection; Neuroprotection; Calcium overload (Kuźnicki, J. (1313) 194)

GroEL
Carbonic anhydrase II; Chaperone; Peptidyl prolyl isomerase; (Human) (Persson, M. (1298) 191)

GroEL protein
Heat shock protein; *groEL* gene; Thermophile; Cyanobacterium; Chaperonin (Furuki, M. (1294) 106)

Growth factor
FGF; Splicing; mRNA (Hattori, Y. (1306) 31)

Growth hormone receptor
Insulin-like growth factor; Insulin-like growth factor receptor; IGF-II/mannose-6-phosphate receptor; β-Actin; IM-9 lymphoblast (Yang, Y. (1310) 317)

Growth inhibitory factor
Liver; (Hamster) (Hashimoto, C. (1310) 309)

Growth plate
Collagen; Pyridinium cross-link; Cartilage; Chondrocyte; Dyschondroplasia; (Tibia); (Chick) (Farquharson, C. (1290) 250)

GSH
Glutathione-protein mixed disulfide; Diamide; *tert*-Butyl hydroperoxide; Hemoglobin; Oxidative stress; (Rat) (Di Simplicio, P. (1289) 252)

Ataxia telangiectasia; SH group; Red blood cell; (Human blood) (Rybczyńska, M. (1302) 231)

GTP
ATP; Binding site; Distance mapping; Microtubule; Tubulin; NMR (Rai, S.S. (1292) 77)

Protein synthesis; Elongation; Transfer RNA; Organelle (Woriax, V.L. (1307) 66)

GTPase
ADP-ribosylation factor; Ras-homologous (Breiner, M. (1308) 1)

Gene *50K*; Amino acid sequence; Cotranscription; Reverse transcription-polymerase chain reaction; (*Synechocystis* sp. PCC 6803) (Geisler, M. (1309) 189)

Fruit ripening; Secretion; *Rab11/YPT3*; (*Mangifera indica* L.) (Zainal, Z. (1314) 187)

Muscle; MyoD; Ras (Caldwell, J.S. (1316) 145)

GTPase activating protein
Ral; Ras; GTP-binding protein; GAP; (Human platelet) (Bhullar, R.P. (1311) 181)

GTP binding
Biosynthetic ornithine decarboxylase; Phosphorylation; Nucleotide activation; *Escherichia coli* (Anagnostopoulos, C.G. (1297) 228)

GTP-binding protein
rap gene; *ras*-related gene; Geranylgeranylation; Lysine-rich domain; (*P. polycephalum*) (Kozlowski, P. (1305) 29)

Ral; Ras; GTPase activating protein; GAP; (Human platelet) (Bhullar, R.P. (1311) 181)

Pancreatic islet; Insulin release; Prostaglandin; Eicosanoid; Interleukin; Cyclooxygenase (Sjöholm, Å. (1313) 106)

GTPγ[^{35}S]
Guanine nucleotide regulatory protein; Pertussis toxin; Endotoxin; Endotoxin tolerance (Makhlouf, M. (1312) 163)

Guanidino propionic acid
Creatine; Mitochondrial inclusion body; Creatine kinase; Adenine nucleotide translocator; Metabolism; Oxidative phosphorylation; (Rat) (O'Gorman, E. (1276) 161)

Guanine binding
BLM-Ni(III) complex; Z-form DNA; Ni(III)-ESR (Guan, L.L. (1308) 169)

Guanine nucleotide
Adenylyl cyclase; G protein; Muscarinic receptor; Myocardium (Piacentini, L. (1282) 11)

Guanine nucleotide binding protein
Invertebrate; Planaria; Protein secretion; Polymerase chain reaction amplification; ADP-ribosylation factor (Saitoh, O. (1309) 205)

Guanine nucleotide-binding protein
Parotid gland; Amylase secretion; ADP-ribosylation; Phosphorylation; Isoproterenol; (Rat) (Amano, I. (1313) 146)

Guanine nucleotide exchange factor
Eukaryotic initiation factor 2B; Protein synthesis; Translational control (Asuru, A.I. (1307) 309)

Guanine nucleotide regulatory protein
Pertussis toxin; Endotoxin; Endotoxin tolerance; GTPγ[^{35}S] (Makhlouf, M. (1312) 163)

Guanylate cyclase
Lactation; Somatostatin receptor; Somatostatin-like immunoreactivity; Pancreatic acinar membrane; (Rat) (Rodríguez-Martín, E. (1316) 102)

Guanylyl cyclase C
Gene expression; Intestine; Caco-2 (Mann, E.A. (1305) 7)

Guanylyl cyclase inhibitor
Methylene blue; LY83583; Patch clamp; Potassium ion channel, Ca^{2+}-activated (BK_{Ca}) (Stockand, J.D. (1285) 123)

Guide RNA
Trypanosome; Kinetoplast; Mitochondrion; RNA editing (Arts, G.J. (1307) 39)

H

HaCaT cell
Phosphatidylcholine; Biosynthesis; Ras transfection (Geilen, C.C. (1299) 299)

Hair
S100A3; Calcium-binding protein; Cuticle (Kizawa, K. (1312) 94)

Hair growth
Corticotropin releasing hormone receptor; Corticotropin releasing hormone; Proopiomelanocortin; (C57BL/6 mouse) (Slominski, A. (1289) 247)

Half-life
Liposome; Collagen; Collagen-coated liposome; Stability; Tissue distribution; Liposome–protein interaction (Fonseca, M.J. (1279) 259)

Halobacterium
Membrane potential; Carotenoid; Ion pump; (Archaebacterium) (Ichi Seki, S. (1284) 79)

Archaea; Plasmid vector pMDS30; Class I subtilase; Signal sequence; (*Hf. volcanii*) (Kamekura, M. (1294) 159)

Haloperidol
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Calcium transport (Takara, D. (1314) 57)

Halophile
Archaebacterium; Halorhodopsin; Fatty acid (Corcelli, A. (1281) 173)

Halophilic 30S ribosomal subunit
Ribosome reconstitution; (*H. mediterranei*) (Sánchez, M.E. (1292) 140)

Halorhodopsin
Archaebacterium; Halophile; Fatty acid (Corcelli, A. (1281) 173)

Halothane
Anesthetic-protein interaction; Supersecondary structure; Fluorescence; Photoaffinity labeling (Johansson, J.S. (1290) 63)

Haptotaxis
Chemotaxis; $\alpha_v\beta_3$ Integrin; Fibrinogen; Vitronectin (Senger, D.R. (1314) 13)

H^+/ATP coupling ratio
F_0F_1-ATP synthase; Chloroplast (Berry, S. (1276) 51)

H2AZ gene
Promoter; Promoter activity; (Human) (Hatch, C.L. (1305) 59)

Hb A_2
Anemia; Hb H; Deletion; Mutation; mRNA ratio imbalance; ζ-chain (Smetanina, N.S. (1316) 176)

Hb H
Anemia; Deletion; Mutation; mRNA ratio imbalance; Hb A_2; ζ-chain (Smetanina, N.S. (1316) 176)

Hb H disease
Reverse transcribed-polymerase chain reaction; Terminating codon mutation (Smetanina, N.S. (1315) 188)

HDL
Cholesterol efflux; Reverse cholesterol transport; Reconstituted HDL; Macrophage (Bernini, F. (1299) 103)

Fatty acid; Cholesterol efflux; HDL phospholipid (Sakr, S.W. (1300) 49)

Pre-β HDL; Apolipoprotein A-I; Reverse cholesterol transport (Barrans, A. (1300) 73)

LDL; Phospholipase A_2; Spin label; Molecular packing; Conformational change (Gorshkova, I.N. (1300) 103)

Phospholipolysis; Sphingomyelin degradation; Fluorescence polarisation; Electron spin resonance; (Human) (Lottin, H. (1301) 127)

NMR, 2-dimensional; Distance geometry; Convex constraint analysis; Amphipathic helix; pH effect (Wang, G. (1301) 174)

HDL binding
cyclic AMP; Fibroblast; (Human skin) (Middleton, A. (1302) 84)

HDL metabolism
PLTP; ns-LTP; Pyrene-labeled phospholipid (Huuskonen, J. (1303) 207)

HDL oxidation
Cholesterol efflux; Atherosclerosis; Lipoprotein oxidation (Rifici, V.A. (1299) 87)

HDL phospholipid
Fatty acid; Cholesterol efflux; HDL (Sakr, S.W. (1300) 49)

HDL remodeling
Apolipoprotein structure; Apolipoprotein A-I; Cholesteryl ester transfer protein; Lecithin-cholesterol acyltransferase (Calabresi, L. (1304) 32)

HDL subclass
Cholesterol efflux; Apolipoprotein A-I; Apolipoprotein E; Tangier disease (Von Eckardstein, A. (1301) 255)

Headgroup-chain linkage
Membrane vesicle; Cationic lipid; Cholesterol; Fluorescence anisotropy; Phase transition (Bhattacharya, S. (1283) 21)

Heart
Adenosine triphosphate; Creatine phosphate; NMR visibility; Cytosolic concentration; Phosphorylation ratio (Williams, J.P. (1276) 71)

Heart cDNA
Small-heat-shock-protein; Chromosome 5; (Human) (Lam, W.Y. (1314) 120)

Heart failure
Collagen; Extracellular matrix; FTIR spectroscopy; Myocardial infarction; Near infrared spectroscopy (Liu, K.-Z. (1315) 73)

Heat shock
Membrane protein thermostability; Cholesterol; ATPase, Ca^{2+}/Mg^{2+}-; DSC (Ortega, A. (1283) 45)

Testosterone-repressed prostate message-2; Alternative splicing; Cycloheximide (Kimura, K. (1307) 83)

Hsp70 gene; Heat shock factor; Monomeric HSF; (*Schistosoma mansoni*) (Levy-Holtzman, R. (1317) 1)

Heat shock cognate
Heat shock protein; Chaperone; Hsc70; (*Xenopus*) (Ali, A. (1309) 174)

Heat shock factor
Heat shock; Hsp70 gene; Monomeric HSF; (*Schistosoma mansoni*) (Levy-Holtzman, R. (1317) 1)

Heat shock protein
Molecular chaperone; Recognition; Degradation pathway; Protein–peptide interaction (Gorinsky, B. (1293) 243)

groEL gene; Thermophile; Cyanobacterium; GroEL protein; Chaperonin (Furuki, M. (1294) 106)

Chaperone; p53 protein; Binding; Mitochondrion; (Human); (Mouse) (Merrick, B.A. (1297) 57)

Ribosomal protein; Laminin receptor; (Chinese hamster) (Chen, M.-S. (1297) 124)

Heat shock cognate; Chaperone; Hsc70; (*Xenopus*) (Ali, A. (1309) 174)

Heat shock protein hsp70
Ionic channel; Potassium conductance; Patch clamp; U937 cell (Negulyaev, Yu.A. (1282) 156)

Heat stability
Archaeal elongation factor 1β; Nucleotide exchange factor; Primary structure; (*S. solfataricus*) (Raimo, G. (1293) 106)

Heat-stable enterotoxin
Human ST receptor; T84 cell; Monoclonal antibody (Garrett, B.M. (1317) 149)

HeLa cell
Diarylsulfonylurea; Sulfonylurea; Antitumor drug; NADH oxidase; Plasma membrane (Morré, D.J. (1280) 197)

Patch clamp; Ammonium inhibition; Calcium ion dependence; Potassium ion current (Díaz, M. (1284) 119)

Adenylyl cyclase; Khellin; Ultraviolet A; G protein; Pertussis toxin (Di Stefano, A. (1314) 105)

α-Helix
Membrane fusion; Amphiphilic peptide; Membrane perturbation; Peptide-lipid conjugate (Zhao, J. (1283) 37)

Helix capping
Analogue; Structure–function relationship; Neurotoxin; pH titration; (Scorpion) (Dyke, T.R. (1292) 31)

Helix-loop-helix
Inhibitor; Differentiation protein; Molecular modeling; Transcription factor; Dimerization (Wibley, J. (1294) 138)

cDNA sequence; Dominant-negative transcription factor; Alternative splicing (Hernandez, M.-C. (1308) 28)

hemA
Heme biosynthesis; Glutamyl-tRNA reductase; 5-Aminolevulinic acid; *hemM* (Chen, W. (1309) 109)

Hemagglutinin
Influenza; Fusion; Phosphatidylserine; Asymmetry; Hemolysis; Erythrocyte (Pak, C.C. (1278) 98)

Heme
NMR; Myoglobin; Distal residue; Hyperfine shift (Yamamoto, Y. (1293) 129)

Cytochrome *P*-450; Nitric oxide; Tyrosine nitration; Surface-enhanced resonance Raman spectroscopy (Quaroni, L. (1296) 5)

Lignin degradation; Manganese peroxidase; Isozyme; Hydrogen peroxide; (*D. squalens*) (Périé, F.H. (1297) 139)

Uroporphyrinogen decarboxylase; Mutagenesis (Wyckoff, E.E. (1298) 294)

Calmodulin; Fluorescence energy transfer; Trifluoperazine; Synergy (Leclerc L'Hostis, E. (1313) 209)

Heme biosynthesis
Glutamyl-tRNA reductase; 5-Aminolevulinic acid; *hemA*; *hemM* (Chen, W. (1309) 109)

Heme cavity
NMR; Dimeric hemoglobin; Magnetic axes; Hyperfine shift; (*Scapharca inaequivalvis*) (Wu, Y. (1298) 261)

Heme-copper oxidase
Qox operon; Circular dichroism; Magnetic circular dichroism; Lipoprotein; (*Thermus thermophilus*) (Zickermann, I. (1277) 93)

Heme/Cu terminal oxidase
Cytochrome-*c* oxidase; Heterogeneity; Binuclear center (Moody, A.J. (1276) 6)

Heme d
Hydroperoxidase II; Cyanide; Catalase; Ligand binding kinetics; (*E. coli*); (Bovine liver) (Maj, M. (1298) 241)

Heme fragment
Cellobiose dehydrogenase; Cellobiose oxidase; FAD fragment; Small-angle X-ray scattering; Shape; (*P. chrysosporium*) (Lehner, D. (1293) 161)

Heme–globin contact
Deuteroheme isomer; Ligand binding; Magnetic resonance (Neya, S. (1296) 245)

Heme O synthase
Cytochrome *c* oxidase; *coxD* gene; (*Synechocystis* sp. PCC 6803) (Malakhov, M. (1273) 84)

Heme O synthesis
Cytochrome *c* oxidase; *ctaBCDEF* operon; DNA sequence; Protein sequence; (*B. stearothermophilus*) (Kusano, T. (1273) 129)

Heme oxygenase-1
LMH cell; Metabolic regulation; (Chick) (Gabis, K.K. (1290) 113)

Heme oxygenase
Biliverdin-IXα reductase; Biliverdin-IXβ reductase; Antioxidant (Komuro, A. (1309) 89)

Heme pocket
Calmodulin; Melittin; Geminate kinetics (Leclerc-L'Hostis, E. (1293) 140)

Heme protein
Distal water/hydroxide; Extended X-ray absorption fine structure spectroscopy; Magnetic circular dichroism spectroscopy; Oxygenase; Proximal histidine (Hawkins, B.K. (1295) 165)

Hemichrome
Hemoglobin; Synchrotron radiation; XANES; (Human) (Della Longa, S. (1294) 72)

Hemoglobin; Extracellular hemoglobin; Oligomeric structure; Methemoglobin; Alkaline dissociation; (*G. paulistus*); (Annelid) (Agustinho, S.C.M. (1298) 148)

hemM
Heme biosynthesis; Glutamyl-tRNA reductase; 5-Aminolevulinic acid; *hemA* (Chen, W. (1309) 109)

Hemocyanin
Monoclonal antibody; Epitope; Dimer (Jekel, P.A. (1291) 195)

Hemodialysis
Carnitine palmitoyl transferase; Red blood cell; Carnitine; Membrane phospholipid turnover (De los Reyes, B. (1315) 37)

Hemoglobin
Liposome; Complement; Natural anti-phospholipid antibody; Antibody (Szebeni, J. (1285) 127)

Cubic phase; Encapsulation; Drug delivery; Monoolein; Lipid (Leslie, S.B. (1285) 246)

GSH; Glutathione-protein mixed disulfide; Diamide; *tert*-Butyl hydroperoxide; Oxidative stress; (Rat) (Di Simplicio, P. (1289) 252)

Linker; Lectin; Giant hemoglobin; (*P. aibuhitensis*) (Matsubara, K. (1290) 215)

Invertebrate hemoglobin; Linker chain; Amino-terminal amino acid sequence; Two-dimensional gel electrophoresis; (*L. terrestris*) (Fushitani, K. (1292) 273)

Hemichrome; Synchrotron radiation; XANES; (Human) (Della Longa, S. (1294) 72)

Pepsin; Hemorphin; Hydrolysate; HPLC; Photodiode array detector (Zhao, Q. (1295) 73)

cDNA sequence; Electrospray ionization mass spectrometry; (Pogonophora); (*Oligobrachia*) (Yuasa, H.J. (1296) 235)

Hexagonal-bilayer molecule; Oxygenation; Shape; X-ray scattering; (Small angle); (*L. terrestris*) (Krebs, A. (1297) 115)

Extracellular hemoglobin; Oligomeric structure; Methemoglobin; Hemichrome; Alkaline dissociation; (*G. paulistus*); (Annelid) (Agustinho, S.C.M. (1298) 148)

Myoglobin; Indoleamine dioxygenase; Gene structure; Convergent evolution; (*Sulculus diversicolor*) (Suzuki, T. (1308) 41)

Hemoglobin, prokaryotic
Characterization; Cyanoglobin, recombinant; Spectroscopy; Structural analysis; (*N. commune* UTEX 584) (Thorsteinsson, M.V. (1292) 133)

Hemolysin
Bacterial toxin; Membrane transport; Erythrocyte; Neuraminidase; (*V. parahaemolyticus*) (Huntley, J.S. (1281) 220)

Hemolysin III
Pore formation; (*Bacillus cereus*) (Baida, G.E. (1284) 122)

Hemolysis
Influenza; Fusion; Phosphatidylserine; Asymmetry; Hemagglutinin; Erythrocyte (Pak, C.C. (1278) 98)

Protoporphyrin; Merocyanine 540; Erythrocyte deformability; Osmotic hemolysis (Lagerberg, J.W.M. (1278) 247)

Erythrocyte; Polyol; Cell shape; Dielectric constant; Partition coefficient; Cryoprotectant toxicity (Bakaltcheva, I.B. (1280) 73)

Band 3; Erythrocyte; High pressure behavior; pH, intracellular (Matsumoto, M. (1280) 243)

Sodium urate crystal; Urate monohydrate crystal, monosodium; Erythrocyte; Membrane pore (Jackson, J.K. (1281) 45)

Hemoprotein
Cytochrome *c*; Unfolding intermediate; Voltammetry; Circular dichroism (Ferri, T. (1298) 102)

Hemorphin
Pepsin; Hemoglobin; Hydrolysate; HPLC; Photodiode array detector (Zhao, Q. (1295) 73)

Hemozoin
NADPH oxidase; Monocyte; Malaria; Malarial pigment; Phagocytosis; (Human) (Schwarzer, E. (1316) 169)

Heparan sulfate
Elastase; Glycosaminoglycan; Heparin; (Human leukocyte) (Volpi, N. (1290) 299)

Heparin
Elastase; Glycosaminoglycan; Heparan sulfate; (Human leukocyte) (Volpi, N. (1290) 299)

Factor Xa; Plasminogen activator inhibitor-1; Calcium ion; Vitronectin (Urano, T. (1298) 199)

Phospholipase A_2, 14 kDa type II; Protamine; Reversible inhibition; Platelet sPLA2 activity and release (Emadi, S. (1300) 226)

Heparin affinity
Factor H; Thrombospondin; Contamination; Glycoprotein (Carron, J.A. (1289) 305)

Heparin-binding EGF-like growth factor
Phorbol ester; Protein kinase C; Hepatoma-derived cell line (Ito, N. (1310) 163)

Heparin-steroid conjugate
Angiogenesis inhibitor; Vascular endothelial cell; Angiostatic steroid (Derbyshire, E.J. (1310) 86)

Hepatectomy
DNA synthesis; Metabolism; Taurocholate; Thymidine kinase; Thymine (Villanueva, G.R. (1289) 136)

Lipase; Activity; (Liver) (Sabugal, R. (1302) 193)

Hepatic fibrosis
Dimethylnitrosamine; Fibrosis; Liver collagen; Collagen; Fibril formation (George, J. (1292) 215)

Hepatic lipase
LpA-I; CETP; Remodeling, LpA-I (Ohta, T. (1303) 137)

Hepatic regulation
Cytochrome *P*-450; mRNA; Neuroleptic; (Rat liver) (Rane, A. (1291) 60)

Hepatic system A
Polyethyleneglycol 8000; Arkyrin; Fodrin; (Madine Darby canine kidney cell) (Handlogten, M.E. (1282) 107)

Hepatic uptake
Bile acid; Chenodeoxycholic acid; Cholestyramine; Mass spectrometry (Einarsson, K. (1317) 19)

Hepatoblastoma cell
Acyl-coenzyme A:cholesterol acyltransferase; Cholesterol homeostasis, intracellular free; Homeostasis; Sterol-induced activation; (Human) (Matsuda, H. (1301) 76)

Hepatocarcinogen
Dehydroepiandrosterone; Lipid peroxidation; Thiobarbituric acid reactive substance; Malondialdehyde; Microsome; (Rat liver) (Swierczynski, J. (1315) 193)

Hepatocellular carcinoma
Tumor marker; Gel display; Subtractive-hybridization (Wu, C.-G. (1315) 169)

Hepatocyte
Bioenergetics; Respiration rate; Mitochondrion; Perifusion; (Permeabilized cell) (Boschmann, M. (1273) 223)

Liposome; Asialofetuin; Amphiphilic compound; Receptor mediation; Gene transfer; (Rat) (Hara, T. (1278) 51)

Desaturation; Elongation; Docosahexaenoic acid; Microsome; Trout (Buzzi, M. (1299) 235)

Δ^9-Desaturase; Isothermal induction; Desaturase induction; Lipid vesicle; (Carp liver) (Macartney, A.I. (1302) 207)

Angiotensin II; c-*fos*; Proto-oncogene (González-Espinosa, C. (1310) 217)

Hepatocyte culture
Bile acid; Bile salt; Biosynthesis; Cholesterol; Cell culture; Metabolism; Hydroxycholesterol (Sauter, G. (1300) 25)

Cyp2e-1; Glucocorticoid hormone; Sex hormone (Sakurai, J. (1313) 35)

Hepatocyte gene regulation
mRNA quantitation; Cholesterol; Lipoprotein; Apolipoprotein; Ester (Rea, T.J. (1299) 67)

Hepatocyte nuclear factor-3 (HNF-3)
cDNA sequence; Lung; mRNA expression; (Human) (Bingle, C.D. (1307) 17)

Hepatoma-derived cell line
Heparin-binding EGF-like growth factor; Phorbol ester; Protein kinase C (Ito, N. (1310) 163)

Hepes
Leydig cell; Potassium ion current; Patch clamp; pH; Sodium ion (Desaphy, J.-F. (1285) 9)

HepG2 cell
Lipoprotein; Receptor; Selective uptake; Lipid; Binding; Protein kinase C (Brissette, L. (1301) 133)

Herbimycin A
Plate-derived growth factor; Phospholipase Cγ1; Phospholipase D (Kim, B.Y. (1311) 33)

Hereditary disease
Batten disease; Ceroid-lipofuscinosis; Lysosomal storage disease; Carnitine; Trimethyllysine; Protein modification; Metabolic defect (Katz, M.L. (1317) 192)

HETE
Icosanoid; Leukotriene; Colon cancer; Cell proliferation; Cell cycle; Apoptosis (Bortuzzo, C. (1300) 240)

Heteroacid phosphatidylcholine
α-Tocopherol; DSC; Phosphatidylcholine (Sánchez-Migallón, M.P. (1279) 251)

Heterocyclic amine
Ambidentate; Thermodynamics; Electron paramagnetic resonance; Histidine; Morpholine; Myoglobin (Stephanos, J.J. (1295) 209)

Heterodimer
Absorbance-detected magnetic resonance; Triplet state; Photosynthesis; Bacterial reaction center; Mutant (Vrieze, J. (1276) 229)

Heterogeneity
Photosystem II; Plastoquinone pool; Antenna size (Hemelrijk, P.W. (1274) 31)

Heme/Cu terminal oxidase; Cytochrome *c* oxidase; Binuclear center (Moody, A.J. (1276) 6)

Heterologous expression
Subdomain function; Subunit interaction; Affinity purification; Superoxide dismutase; Protein fusion; Human (Tibell, L.A.E. (1292) 47)

Heterotrophic growth
Complementary chromatic adaptation; Glucose-6-phosphate dehydrogenase; ATPase, F_0F_1-; Fructose-1,6-bisphosphatase; Phycobilin; Thioredoxin (Austin, P.A. (1277) 141)

Hexadecylphosphocholine
Macrophage; Poly(ethylene glycol); Liposome; Mononuclear phagocytic system; LUVET; Stability (Zeisig, R. (1283) 177)

Macrophage; Phagocytosis; Sterical stabilization; Liposome; Mononuclear phagocytic system; Zeta potential; Large unilamellar vesicle; Poly(ethylene glycol) (Zeisig, R. (1285) 237)

Hexagonal-bilayer molecule
Hemoglobin; Oxygenation; Shape; X-ray scattering; (Small angle); (*L. terrestris*) (Krebs, A. (1297) 115)

Hexagonal II phase
Nematode; Cuticle; Freeze-fracture; Non-bilayer structure; (*T. spiralis*) (Gounaris, K. (1281) 91)

***n*-Hexane**
1-Hexanethiol; 1-Hexanol; Mitochondrion; (Rat liver) (Canton, M. (1274) 39)

1-Hexanethiol
n-Hexane; 1-Hexanol; Mitochondrion; (Rat liver) (Canton, M. (1274) 39)

1-Hexanol
n-Hexane; 1-Hexanethiol; Mitochondrion; (Rat liver) (Canton, M. (1274) 39)

Hexenal
4-Hydroxy-2-hexenal; 4-Hydroxy-2-nonenal; Lipoxygenase pathway; Nonenal; Peroxygenase; (*Glycine max* L.) (Takamura, H. (1303) 83)

***β*-Hexosaminidase**
Sandhoff disease; Lysosomal enzyme; G_{M2} ganglioside (Redonnet-Vernhet, I. (1317) 127)

Hexose uptake
Carbon metabolism; Continuous culture (Meijer, M.M.C. (1277) 209)

H13 gene
Cationic amino acid transport; Amino acid transport; Peripheral blood mononuclear cell; 4F2 gene; Antisense oligonucleotide; Oligonucleotide; (Human) (Chen, S. (1284) 1)

***pet*H gene**
Overexpression; Ferredoxin–ferredoxin-$NADP^+$ reductase interaction; (*Anabaena*); (*E. coli*) (Martínez-Júlvez, M. (1297) 200)

Hibernation
Glyceraldehyde-3-phosphate dehydrogenase; Covalent modification; Enzyme isoform; Chromatofocusing; (*J. orientalis*) (Soukri, A. (1292) 177)

High affinity binding
Carnitine; Sodium ion dependence; Brush border membrane; (Human placenta) (Roque, A.S. (1282) 274)

Carnitine; High affinity transport; Plasma membrane; JAR choriocarcinoma cell; Human placenta (Prasad, P.D. (1284) 109)

High affinity transport
Carnitine; High affinity binding; Plasma membrane; JAR choriocarcinoma cell; Human placenta (Prasad, P.D. (1284) 109)

High energy phosphate
Zymosan; Skeletal muscle; Critical illness; Energy metabolism; Tricarboxylic acid cycle (Rooyackers, O.E. (1315) 55)

High fat
Food intake; Hybridization, in situ; Lipase; Enterostatin; Procolipase; (Pancreas); (Rat stomach) (Sörhede, M. (1301) 207)

High-fat diet
Insulin; Liver; Pyruvate dehydrogenase complex; Starvation (Sugden, M.C. (1316) 114)

High performance size exclusion chromatography
Enzyme inactivation; Cosolvent effect; Temperature (Jensen, W.A. (1296) 23)

High pressure behavior
Band 3; Erythrocyte; Hemolysis; pH, intracellular (Matsumoto, M. (1280) 243)

High pressure denaturation
Enzyme; β-Galactosidase; Physical environment (Degraeve, P. (1292) 61)

High pressure liquid chromatography
Amebocyte; Eicosanoid; Electrospray; Mass spectrometry; Hydroxyeicosatetraenoic acid; (*L. polyphemus*) (MacPherson, J.C. (1303) 127)

High resistance epithelium
Amiloride-sensitive sodium transport; Aldosterone-induced protein; Sodium channel; Benzamil; Amiloride (Bindels, R.J.M. (1284) 63)

High spin
Cytochrome oxidase; Optical spectrum; 5-Coordinate (Liao, G.-L. (1274) 109)

High-temperature and high-pressure bioreactor
β-Glucosidase; Thermostability; Barostability; Protein volume change (Hamon, V. (1294) 195)

Histamine
Chondrocyte; Intracellular calcium; Fura-2; Cartilage (Horwitz, E.R. (1313) 95)

Histidine
Urine; Urocanic acid; *N*-Acetyl-L-cysteine; NMR spectrometry; Mass spectrometry; (Human); (Rat) (Kinuta, M. (1291) 131)

ATPase, F_1-; Inhibitor protein; Transition; pH dependence; (Bovine) (Schnizer, R. (1292) 241)

Ambidentate; Thermodynamics; Electron paramagnetic resonance; Heterocyclic amine; Morpholine; Myoglobin (Stephanos, J.J. (1295) 209)

Tryptophan; Active site; Endo-polygalacturonase; Reaction mechanism; (*A. ustus*) (Rao, M.N. (1296) 167)

Histidine ligand
Cytochrome bc_1 complex; Q_P pocket; 'Rieske' iron-sulfur cluster; Iron-sulfur cluster; Stigmatellin binding (Link, T.A. (1275) 54)

Histidine line broadening
Myelin basic protein; Experimental allergic encephalomyelitis; NMR spectroscopy (Koshy, K.M. (1293) 23)

Histidine mutation
Site-directed mutagenesis; Hydroxysteroid sulfotransferase; (Rat liver) (Homma, H. (1296) 159)

Histidine oxidation
Photosystem II; Core complex; Difference spectroscopy; Chloride depletion; Proton release; Electron transfer (Haumann, M. (1273) 237)

Histone
Chromatin; Acetylation; Nucleosome; Deacetylase; (Maize); (*Physarum*); (Chicken) (Lechner, T. (1296) 181)

Histone-like protein; Archaea; Histone fold; HMf; (*Thermococcus*) (Ronimus, R.S. (1307) 1)

Histone binding
Prothymosin α; Nucleosome assembly; (Bovine) (Díaz-Jullien, C. (1296) 219)

Histone fold
Histone-like protein; Archaea; Histone; HMf; (*Thermococcus*) (Ronimus, R.S. (1307) 1)

Histone gene
Gene sequence; DNA; (Mouse) (Brown, V.D. (1306) 17)

Histone H4 protein kinase
Neutrophil; Signal transduction; Protein kinase; Activation, in vitro (Liu, R. (1295) 89)

Histone-like protein
Archaea; Histone; Histone fold; HMf; (*Thermococcus*) (Ronimus, R.S. (1307) 1)

HIV
Primer-binding-site; Reverse transcription; RibonucleaseH; Pausing; Strand-transfer (Pop, M.P. (1307) 193)

Drug targeting; Fluorothymidine; Azidothymidine; Receptor; Scavenger; Macrophage (Mankertz, J. (1317) 233)

HIV-1
Liposome; Serum albumin; *cis*-Aconitic anhydride; SATA; (Human); (Antiviral) (Kamps, J.A.A.M. (1278) 183)

Cationic liposome; Cytotoxicity; Macrophage; (Human) (Konopka, K. (1312) 186)

H^+/K^+ exchange
Ion transport; Plasma membrane; *Saccharomyces cerevisiae* (Ramírez, J. (1285) 175)

HL60
1α,25-Dihydroxyvitamin D_3; Retinoic acid; Aldoketoreductase; Differentiation; Leukemia (Bunce, C.M. (1311) 189)

HLA-DR
Rheumatoid arthritis; Autoimmunity; Peptide; Peptide motif; T cell epitope prediction; Major histocompatibility complex class II (Friede, T. (1316) 85)

HMf
Histone-like protein; Archaea; Histone; Histone fold; (*Thermococcus*) (Ronimus, R.S. (1307) 1)

HMG-CoA reductase
Acetyl-CoA carboxylase; AICAriboside; AMP-activated protein kinase (Henin, N. (1290) 197)

Cholesterol; LDL receptor; Renal carcinoma; Transcript (Rudling, M. (1299) 75)

HMG-CoA reductase inhibitor
Lovastatin; Simvastatin; Pravastatin; Sterol synthesis; Progesterone secretion (Van Vliet, A.K. (1301) 237)

Inhibitor; Differentiation; (Rat skeletal muscle cell); (Growth) (Veerkamp, J.H. (1315) 217)

Hofmeister effect
Collagen type I; Protein–salt interactions; Thermal stability; DSC; Protein electrostatics; (Calf skin) (Komsa-Penkova, R. (1297) 171)

Homeostasis
Acyl-coenzyme A:cholesterol acyltransferase; Cholesterol homeostasis, intracellular free; Sterol-induced activation; Hepatoblastoma cell; (Human) (Matsuda, H. (1301) 76)

Platelet activating factor; Acetylhydrolase; Signaling; Phospholipid; (Mammalian) (Stafforini, D.M. (1301) 161)

Homocysteic acid
Procollagen peptide; Collagen metabolism; Homocystinuria; Homocysteine; Osteoporosis; Osteopenia (Lubec, B. (1315) 159)

Homocysteine
Procollagen peptide; Collagen metabolism; Homocystinuria; Homocysteic acid; Osteoporosis; Osteopenia (Lubec, B. (1315) 159)

Homocystinuria; Thiamine; Transamination; Vitamin B_1 (Franken, D.G. (1317) 101)

Homocystinuria
Procollagen peptide; Collagen metabolism; Homocysteine; Homocysteic acid; Osteoporosis; Osteopenia (Lubec, B. (1315) 159)

Homocysteine; Thiamine; Transamination; Vitamin B_1 (Franken, D.G. (1317) 101)

Homologous DNA pairing protein
Recombination; Spermatocyte; (Rat) (Namsaraev, E.A. (1305) 172)

Homologous recombination
Gene targeting; DNA transfection; Poly(ADP-ribosylation); Poly(ADP-ribose) polymerase (Waldman, B.C. (1308) 241)

Homology
Dideoxy sequencing; PCR; Northern blot analysis; Gelatinase; (Rabbit) (Matsumoto, S.-i. (1307) 137)

Homology modeling
Cathepsin B; Proteinase; Substrate docking; (*Ancylostoma caninum*); (Hookworm) (Brinkworth, R.I. (1298) 4)

Homoserine, unsaturated
Diacylglycerol-*N,N,N*-trimethylhomoserine; Lipid characterization; Phosphatidylcholine; Cyclic variation; Electrospray mass spectrometry; (Marine alga) (Haigh, W.G. (1299) 183)

Hormone
Steroid esterification; Enzyme purification; Pregnenolone; Dehydroepiandrosterone; Lecithin-cholesterol acyltransferase (Lavallée, B. (1299) 306)

Horseradish peroxidase
trans-2-Phenylcyclopropylamine; Amine oxidation (Sayre, L.M. (1296) 250)

HPLC
Oxidative stress; *tert*-Butyl hydroperoxide; Phospholipid; *cis*-Parinaric acid; Fluorescence probe (Ritov, V.B. (1283) 127)

Pepsin; Hemorphin; Hemoglobin; Hydrolysate; Photodiode array detector (Zhao, Q. (1295) 73)

Hsc70
Heat shock protein; Heat shock cognate; Chaperone; (*Xenopus*) (Ali, A. (1309) 174)

Hsp70 gene
Heat shock; Heat shock factor; Monomeric HSF; (*Schistosoma mansoni*) (Levy-Holtzman, R. (1317) 1)

HT-29
Calcium-binding protein; Calretinin; Colon adenocarcinoma; Adenocarcinoma; Differentiation (Cargnello, R. (1313) 201)

HTLV-1
Tax_1; Tax_1 binding protein (Mireskandari, A. (1306) 9)

Human β-glucosidase
Gaucher disease; Fluorogenic substrates (Mikhaylova, M. (1317) 71)

Human bladder
cDNA; Purinergic receptor; Amino acid sequence (Longhurst, P.A. (1308) 185)

Human chorionic gonadotropin
Insulin receptor substrate-I; Insulin-like growth factor-I; cyclic AMP; Phosphorylation; Ovary (Talavera, F. (1310) 10)

Human chromosome 11
Transmembrane protein; mRNA expression; Differential mRNA display (Lissy, N.A. (1306) 137)

Human cultured cell
Mitochondrion; Photosensitizer; Porphyrin; Cell killing; Oxidative stress (Munday, A.D. (1311) 1)

Human disease
Arachidonic acid; Phospholipid (Chilton, F.H. (1299) 1)

Human leukemia
Polyunsaturated fatty acid; Docosahexaenoic acid; Retroconversion; Δ^6-Desaturase; Δ^4-Desaturase; Human retinoblastoma (Marzo, I. (1301) 263)

Human leukocyte elastase
Eosinophil (Wiedow, O. (1315) 185)

Human liver
Fatty acid ethyl ester; Microsomal enzyme; Ethanol metabolite; Acyl-CoA hydrolase; Acyl-CoA:ethanol acyltransferase (Treloar, T. (1299) 160)

Human lung fibroblast
Transforming growth factor-β; Receptor; Promoter (Bloom, B.B. (1312) 243)

Human meningioma
Acetylcholinesterase; Butyrylcholinesterase; Amphiphilic properties (Sáez-Valero, J. (1317) 210)

Human milk
Cyclophilin; Endoplasmic reticulum; Retention signal; Secretion (Mariller, C. (1293) 31)

Human neutrophil
Free fatty acid; Lysosomal enzyme; Degranulation; Superoxide generation; Myeloperoxidase (Ishida-Okawara, A. (1314) 239)

Human pathology
Creatine kinase; Citrate synthase; Mitochondrion; Muscle; Ragged red fiber (Bouzidi, M.F. (1316) 61)

Mitochondrial disease; Ubiquinol cytochrome *c* reductase; Cytochrome *b*; Antimycin A; Myxothiazol (Bouzidi, M.F. (1317) 199)

Human placenta
ATP diphosphohydrolase; Apyrase; ADPase; Deglycosylation; Subcellular localization (Christoforidis, S. (1282) 257)

Carnitine; High affinity transport; High affinity binding; Plasma membrane; JAR choriocarcinoma cell (Prasad, P.D. (1284) 109)

Human platelet
BCECF; Intracellular pH; Na^+/H^+ exchange (Aharonovitz, O. (1284) 227)

Human retinoblastoma
Polyunsaturated fatty acid; Docosahexaenoic acid; Retroconversion; Δ^6-Desaturase; Δ^4-Desaturase; Human leukemia (Marzo, I. (1301) 263)

Human senile cataract
Lens; Ganglioside; Sialyl-Lewis^x (Ogiso, M. (1315) 29)

Human serum albumin
Ligand binding site; Site I; Ligand binding region; Displacement (Yamasaki, K. (1295) 147)

Human ST receptor
Heat-stable enterotoxin; T84 cell; Monoclonal antibody (Garrett, B.M. (1317) 149)

Human umbilical endothelial cell
Molecular cloning; cDNA (Yoshimoto, M. (1293) 83)

Human umbilical vein endothelial cell
Cathepsin B; Cathepsin D; Tissue-type plasminogen activator; Plasminogen activator inhibitor-1 (Kimura, Y. (1310) 1)

Hybridization, in situ
Food intake; High fat; Lipase; Enterostatin; Procolipase; (Pancreas); (Rat stomach) (Sörhede, M. (1301) 207)

Collecting duct; Calcium ion; Immunohistochemistry; Tamm-Horsfall protein; Kidney; (*Cricetomys gambianus*); (African giant rat) (Moutairou, K. (1313) 187)

Hydration
Self-diffusion coefficient; Protein solution; Water molecule (Baranowska, H.M. (1289) 312)

Hydration shell
Ionic channel; Ionic transport; Monte Carlo simulation; Electrolitic solution (Degrève, L. (1274) 149)

Hydride ion transfer
Proton/hydride ratio; Nicotinamide nucleotide transhydrogenase; Chromatophore; Liposome; Overexpression (Bizouarn, T. (1273) 4)

Hydrodynamic shear boundary
Surface potential; Membrane hydration; Membrane curvature; Monovalent cation association; Fluorescence probe (Kraayenhof, R. (1282) 293)

Hydrogenase
Isotope exchange, hydrogen/deuterium; Enzyme regulation; (*A. vinelandii*) (McTavish, H. (1294) 183)

mcpA gene; Chemoreceptor; Symbiotic plasmid; (*Rh. leguminosarum*) (Brito, B. (1308) 7)

Hydrogen bond
Photosystem II; Cryoprotectant; LHC II; Charge separation (Vasil'ev, S. (1276) 35)

Hydrogen–deuterium exchange
Plasminogen activation; Staphylokinase; Infrared spectroscopy; Solution structure; Thermal stability (Dornberger, U. (1294) 168)

Hydrogen peroxide
Aminophospholipid·MDA; Cataract; Conjugated diene; Lipid peroxide; Malondialdehyde; Oxidative stress; (Lens cellular membrane) (Bhuyan, D.K. (1285) 21)

ATPase, Na^+/K^+-; Oxidative stress; Enzyme regulation (González-Flecha, B. (1290) 46)

Nitric oxide; Reactive oxygen metabolite; Gastric cytoprotection; Mucous glycoprotein; Prostaglandin E_2; (Rabbit gastric mucosal cell) (Hata, Y. (1290) 257)

Catalase; Enzyme inactivation; (Bovine liver); (*Aspergillus niger*) (Lardinois, O.M. (1295) 222)

Manganese-reconstituted myoglobin; Myoglobin; Reaction kinetics; Reaction thermodynamics; (Horse heart) (Mondal, M.S. (1296) 174)

Lignin degradation; Manganese peroxidase; Isozyme; Heme; (*D. squalens*) (Périé, F.H. (1297) 139)

Hydrogen-sulfide:ferredoxin oxidoreductase
Cysteine biosynthesis; Assimilatory sulfite reduction; cDNA; Sequence homology; Chloroplast isoform; (*A. thaliana*) (Brühl, A. (1295) 119)

Hydrolase
Lipid; Oxylipin; Cytochrome *P*-450; Epoxide (Moghaddam, M.F. (1290) 327)

Liver; Ethanol; Lysosome; Proteinase; Trafficking; Cathepsin L; Intracellular processing (Kharbanda, K.K. (1291) 45)

Retinoic acid; Temarotene; Acitretin; *N*-(4-Hydroxyphenyl)retinamide; Retinol-binding protein; (Rat) (Ritter, S.J. (1291) 228)

Hydrolysate
Pepsin; Hemorphin; Hemoglobin; HPLC; Photodiode array detector (Zhao, Q. (1295) 73)

Hydrolysis
Cholesterol ester; Mammalian tissue (Hui, D.Y. (1303) 1)

Hydronephrosis
Apoptosis; Liver ischaemic atrophy; Tumor suppressor gene p53 (Cummings, M.C. (1315) 100)

Hydroperoxidase
Lipoxygenase; Lag period; Oxidation; Xenobiotic; Isoproterenol (Núñez-Delicado, E. (1293) 17)

Hydroperoxidase II
Heme d; Cyanide; Catalase; Ligand binding kinetics; (*E. coli*); (Bovine liver) (Maj, M. (1298) 241)

Hydroperoxide
Lipoxygenase; 12-Lipoxygenase; Suicide inactivation; Arachidonic acid; Linoleic acid (Kishimoto, K. (1300) 56)

Hydroperoxide platelet activating factor acetylhydrolase
LDL; Glycation; Phospholipase A_2; Cholesteryl ester hydroperoxide; Phosphatidylcholine (Sakurai, T. (1301) 85)

15-Hydroperoxy-5,8,11,13,15-icosapentaenoic acid
Icosapentaenoic acid; Arachidonic acid metabolism; Lipid hydroperoxide; Platelet (Tsunomori, M. (1300) 171)

Hydrophobic interaction
Peptide synthesis; Gene engineering; Circular dichroism; Alpha helix; De novo design (Kojima, S. (1294) 129)

Hydrophobic membrane
Lipoprotein; Taste, bitter; Inhibitor; (Frog tongue) (Katsuragi, Y. (1289) 322)

Hydrophobic segment
Mucin; Intestine; Dicarboxylate; Ion transport (Khatri, I.A. (1309) 58)

Hydrophobic surfactant protein
Phospholipid domain; Pulmonary surfactant; Dipalmitoylphosphatidylcholine (Creuwels, L.A.J.M. (1285) 1)

Hydrostatic pressure
Alcohol dehydrogenase; Activation volume; (*T. brockii*); (Yeast) (Dallet, S. (1294) 15)

Hydroxamate
Serine proteinase; Cysteine proteinase; Inhibitor; (Mechanism) (Demuth, H.-U. (1295) 179)

Hydroxide ion gradient
Chloride–bicarbonate (hydroxide) ion exchange; Chloride ion transport; Bicarbonate ion gradient; Sodium–chloride absorption; (Human colon) (Mahajan, R.J. (1280) 12)

Hydroxycholesterol
Bile acid; Bile salt; Biosynthesis; Cholesterol; Cell culture; Metabolism; Hepatocyte (Sauter, G. (1300) 25)

Hydroxycoumarin
Serum albumin; Surface pH; Fatty acid; Phospholipase assay; Spectrophotometric recording; (Bovine) (Demant, E.J.F. (1304) 43)

6-Hydroxydopamine
Parkinson's disease; Dopamine; Iron(III); Iron(II); Manganese(II); Fenton's reagent; Nicotine (Linert, W. (1316) 160)

Hydroxyeicosatetraenoic acid
Amebocyte; Eicosanoid; High pressure liquid chromatography; Electrospray; Mass spectrometry; (*L. polyphemus*) (MacPherson, J.C. (1303) 127)

5-Hydroxyeicosatetraenoic acid
Arachidonic acid; Leukotriene B_4; Aggregation; Polymorphonuclear leukocyte; Diabetes (Nakagawa, Y. (1315) 145)

12-Hydroxyeicosatetraenoic acid
Phosphatidic acid; Diacylglycerol; Phosphatidylcholine; Endothelial cell (Legrand, A.B. (1301) 150)

Leukotriene; Arachidonic acid; Albumin; Leukocyte; Platelet (Dadaian, M. (1303) 154)

4-Hydroxy-2-hexenal
Hexenal; 4-Hydroxy-2-nonenal; Lipoxygenase pathway; Nonenal; Peroxygenase; (*Glycine max* L.) (Takamura, H. (1303) 83)

Hydroxylation
5-*S*-cysteinyldopa; Melanocyte; Pheomelanin (Napolitano, A. (1291) 75)

Kynurenic acid; 2-Oxo-1,2-dihydroquinoline; Quinaldic acid; Quinaldic acid 4-monooxygenase; (*Alcaligenes* sp. F-2) (Bubeck, B. (1293) 39)

Hydroxyl radical
Nitroprusside; Superoxide anion radical; Spin trap; Microsome; Redox cycling; Iron chelate (Rao, D.N.R. (1289) 195)

Myeloperoxidase; Superoxide; Hypochlorous acid; (*E. coli*); (*P. aeruginosa*) (Britigan, B.E. (1290) 231)

Isotorachrysone; Lipid peroxidation; Peroxyl radical; Superoxide anion; LDL; Free radical; Antioxidant (Hsiao, G. (1298) 119)

Hydroxylysine
Collagen; Fibrosis; Bleomycin; Collagen cross-linking (Gerriets, J.E. (1316) 121)

4-Hydroxynonenal
Glutathione *S*-transferase; Lipid peroxidation; Microvessel endothelial cell; (Bovine) (He, N.-G. (1291) 182)

4-Hydroxy-2-nonenal
Hexenal; 4-Hydroxy-2-hexenal; Lipoxygenase pathway; Nonenal; Peroxygenase; (*Glycine max* L.) (Takamura, H. (1303) 83)

***N*-(4-Hydroxyphenyl)retinamide**
Retinoic acid; Temarotene; Acitretin; Hydrolase; Retinol-binding protein; (Rat) (Ritter, S.J. (1291) 228)

14-Hydroxy-4,14-*retro*-retinol
Retinoic acid; Retinol; Vitamin A metabolism; Embryonic exposure (Tzimas, G. (1301) 1)

Hydroxysteroid sulfotransferase
Site-directed mutagenesis; Histidine mutation; (Rat liver) (Homma, H. (1296) 159)

Hypercalcemia
Hypocalcemia; Thymus; (Mouse) (Mohamed, M.I. (1289) 275)

Hypercholesterolemia, familial
LDL; DiI-LDL; DiI-acetyl-LDL; Fibroblast; Macrophage; Fluorescence; Cholesterol (Teupser, D. (1303) 193)

Hyperfine shift
NMR; Myoglobin; Distal residue; Heme (Yamamoto, Y. (1293) 129)

NMR; Dimeric hemoglobin; Heme cavity; Magnetic axes; (*Scapharca inaequivalvis*) (Wu, Y. (1298) 261)

Hyperlipidemia
Macrophage; Monocyte; Atherosclerosis; Scavenger receptor (García Villanova, J. (1300) 135)

Lipoprotein lipase; Gene variant; Transfection (Zhang, H. (1302) 159)

Hyperlipoproteinemia
Apolipoprotein E2; *apo E* gene; Restriction fragment length polymorphism; Polymorphism; Xanthomatosis (Moriyama, K. (1301) 185)

Hyperoxia
Glutathione transferase; Subunit distribution; Oxidative stress; Hypoxia; (Rat liver) (Di Ilio, C. (1312) 125)

Hypertension
Kallikrein; Kallikrein-binding protein; Serpin; Promoter activity; Gel retardation; (Rat); (Kidney) (Ma, J.-x. (1307) 285)

Endothelium; Nitric oxide; Vascular tone; Gene regulation (Gnanapandithen, K. (1308) 103)

Hyperthermophile
Archaea; Electron transport; Terminal oxidase; ATPase; Energy conservation; (*Sulfolobus*) (Schäfer, G. (1277) 163)

Hypertriglyceridemia
($n-3$) Fatty acid; Fish oil; Sucrose-rich diet; Dyslipidemia; Glucose intolerance (Lombardo, Y.B. (1299) 175)

Polyunsaturated fatty acid diet; Lipogenesis gene; Adipose tissue; Fish oil; (Rat liver) (Šeböková, E. (1303) 56)

Hypocalcemia
Hypercalcemia; Thymus; (Mouse) (Mohamed, M.I. (1289) 275)

Hypochlorous acid
Myeloperoxidase; Hydroxyl radical; Superoxide; (*E. coli*); (*P. aeruginosa*) (Britigan, B.E. (1290) 231)

Hypolipidemic drug
Fatty acid; Fibrate; Gene expression; Lipid metabolism; Nuclear hormone receptor; PPAR; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

Hypoxanthine transport
Sodium ion/nucleobase cotransport; Nucleobase cotransport; Facilitated-diffusion nucleobase transport; Phorbol ester; Phorbol 12-myristate 13-acetate; Diacylglycerol (Griffith, D.A. (1284) 213)

Hypoxia
βTC3; Insulin secretion; Anoxia; Bioartificial pancreas (Papas, K.K. (1291) 163)

Glutathione transferase; Subunit distribution; Oxidative stress; Hyperoxia; (Rat liver) (Di Ilio, C. (1312) 125)

β-Adrenergic receptor; pH; Ischemia (Schmedtje Jr., J.F. (1314) 25)

I

IAA-94
Chloride channel; Ciliary membrane; Voltage-dependence; Bursting activity; (*Tetrahymena*) (Fujiwara-Hirashima, C. (1280) 207)

Icosanoid
Prostaglandin; Prostaglandin synthase 2; Prostanoid; Gene expression (Herschman, H.R. (1299) 125)

Leukotriene; HETE; Colon cancer; Cell proliferation; Cell cycle; Apoptosis (Bortuzzo, C. (1300) 240)

Icosapentaenoic acid
15-Hydroperoxy-5,8,11,13,15-icosapentaenoic acid; Arachidonic acid metabolism; Lipid hydroperoxide; Platelet (Tsunomori, M. (1300) 171)

eIF-(iso)4F
Conformational transition; pH dependence; Ligand binding; Circular dichroism (Wang, Y. (1297) 207)

IgE-antibody
Leader sequence; Venom allergen; Allergy; (*M. pilosula*) (Street, M.D. (1305) 87)

IGF-1
Apoptosis; Insulin; Serum starvation (Yang, B.-C. (1314) 83)

IGF-II/mannose-6-phosphate receptor
Insulin-like growth factor; Insulin-like growth factor receptor; Growth hormone receptor; β-Actin; IM-9 lymphoblast (Yang, Y. (1310) 317)

IGF-II receptor
Phospholipase C; cyclic AMP; Phosphatase inhibitor; Insulin sensitivity; Plasma membrane; (Rat adipocyte) (Yu, Z.-W. (1282) 57)

IgG
Immune complex, insoluble; Ovalbumin; Complement (Gorgani, N.N. (1317) 45)

***S*-adenosyl-L-methionine-dependent uroporphyrinogen-III C-methyltransferase**
Denitrification; Cytochrome *c* oxidase; Cytochrome cd_1; LysR family; Short-chain alcohol dehydrogenase (Glockner, A.B. (1277) 6)

3-[^{125}I]Iodo-4-azidophenetylamido-7-O-succinyldeacetyl-forskolin
Glucose transport; Insulin-regulated glucose transporter GLUT4; Cytochalasin B (Wandel, S. (1284) 56)

IL-1α
Senescence; Fibroblast growth factor; Fibroblast growth factor receptor-1; Endothelial cell (Garfinkel, S. (1314) 109)

Illegitimate recombination
Class switch recombination; Double-strand break repair; Extrachromosomal DNA (Kameyama, K.-z. (1308) 263)

Imidazole
NMR, two-dimensional; Cytochrome *c*; Structure (Liu, G. (1277) 61)

NMR, two-dimensional; Cytochrome *c*; (Horse) (Shao, W. (1295) 44)

IM-9 lymphoblast
Insulin-like growth factor; Insulin-like growth factor receptor; Growth hormone receptor; IGF-II/mannose-6-phosphate receptor; β-Actin (Yang, Y. (1310) 317)

Immediate early gene
Calmodulin kinase; Calmodulin; Thyroid hormone T_3; c-*fos*; Development; (Rat brain) (Krebs, J. (1313) 217)

Immobilized NAD$^+$
Lactate dehydrogenase; Alcohol dehydrogenase; Glutamate dehydrogenase; Malate dehydrogenase (O'Carra, P. (1297) 235)

Immobilization
α-Glucosidase; Extreme thermophile; Thermophile; Archaebacterium; Thermostabilization; (*Thermococcus*) (Piller, K. (1292) 197)

Immune cell
Ceruloplasmin; Gene expression; Lymphocyte; Copper (Pan, Y. (1307) 233)

Immune complex
Clusterin; C1q; AMP; Affinity chromatography; ELISA (Roeth, P.J. (1297) 159)

Immune complex, insoluble
Ovalbumin; IgG; Complement (Gorgani, N.N. (1317) 45)

Immune response
Ceramide; Sphingomyelin; Sphingolipid; Signal transduction (Ballou, L.R. (1301) 273)

Immunoaffinity chromatography
Carboxy terminal peptide; Chylomicron; Dietary-derived lipid; Immunoassay; Postprandial profile (Lovegrove, J.A. (1301) 221)

Immunoassay
Carboxy terminal peptide; Chylomicron; Dietary-derived lipid; Immunoaffinity chromatography; Postprandial profile (Lovegrove, J.A. (1301) 221)

Immunoblotting
Thymidine kinase; Gene expression; α-Adrenergic regulation; Liver regeneration; Partial hepatectomy; (Rat) (Tsukamoto, I. (1290) 267)

Chloroplast; Nucleoside diphosphate kinase; Affinity chromatography; (Spinach) (Yang, L.-M. (1294) 99)

Secalin; Coeliac disease; Rye; MALDI-TOF MS (Rocher, A. (1295) 13)

Leigh syndrome; Mitochondrial myopathy; Cytochrome *c* oxidase deficiency; Monoclonal antibody (Possekel, S. (1316) 153)

Immunoblot, two-dimensional
Protein kinase C; Autophosphorylation; *trans*-Phosphorylation; Phorbol ester; cGMP-dependent protein kinase (Gatti, A. (1313) 111)

Immunodetection
NaPi-2; Phosphate cotransporter; Polyclonal antibody; (Kidney) (Boyer, C.J.C. (1281) 117)

Immunoglobulin
Somatic mutation; V gene; Gene conversion; DNA context (Rogozin, I.B. (1306) 171)

Immunoglobulin G
Fast phase aggregation; Fibrinogen; Plasma protein; (Human erythrocyte) (Game, L. (1291) 138)

Liposome; Tetanus toxoid; Covalent coupling; Microfluidization; Freeze-fracture electron microscopy (Skalko, N. (1301) 249)

Immunoglobulin superfamily
Milk fat globule; Butyrophilin; cDNA sequence; (Human) (Taylor, M.R. (1306) 1)

Cell adhesion; Epithelial polarity; Cytokine; Molecular cloning (Schuster, V.L. (1311) 13)

Immunogold electron microscopy
Liposome; Lymph node; Morphological observation (Velinova, M. (1299) 207)

Immunohistochemistry
Retinoic acid; Neuronal differentiation; Cellular aggregation; Patch clamp; (Embryonic stem cell) (Van Inzen, W.G. (1312) 21)

Collecting duct; Calcium ion; Hybridization, in situ; Tamm-Horsfall protein; Kidney; (*Cricetomys gambianus*); (African giant rat) (Moutairou, K. (1313) 187)

Cytochrome *c* oxidase; Mitochondrial protein; Monoclonal antibody; Chronic progressive external ophthalmoplegia; (Human) (Taanman, J.-W. (1315) 199)

Immunoliposome
Liposome; Long-circulating liposome; Antimyosin; Antibody; Myocardial infarction; Drug targeting (Torchilin, V.P. (1279) 75)

Immunosuppression
Ganglioside; Monocyte; Antigen presentation (Heitger, A. (1303) 161)

Impedance spectroscopy
Lipid bilayer; Supported lipid bilayer; Gramicidin D; Ion transport (Steinem, C. (1279) 169)

Inactivation kinetics
Xylose reductase; NADPH specific; Acrylamide quenching; Tryptophan; 1-Anilino-8-napthalene sulfonate; (*N. crassa*) (Rawat, U.B. (1293) 222)

Incorporation, in vivo
Bisnorlipoic acid; Lipoic acid; Pyruvate dehydrogenase; Pyruvate dehydrogenase complex; (*E. coli*) (Loeffelhardt, S. (1297) 90)

Indocyanine green
Microtubular network; Postischemic liver dysfunction; Near-infrared spectroscopy; Prostaglandin E_1 (Shinohara, H. (1317) 27)

Indoleamine dioxygenase
Hemoglobin; Myoglobin; Gene structure; Convergent evolution; (*Sulculus diversicolor*) (Suzuki, T. (1308) 41)

Indomethacin
Cell proliferation; Arachidonic acid metabolism; Mammary carcinoma (Tripathi, S.C. (1316) 5)

Induced electric dipole
Electrorotation; Cell electrodynamics; Cell membrane; Membrane capacitance (Mahaworasilpa, T.L. (1281) 5)

Induction
NADPH-quinone reductase; 2-Methylene-4-butyrolactone; Two-electron reduction; Drug activity modulator; (*E. coli*) (Hayashi, M. (1273) 165)

Dioxin; Cytochrome *P*-450; (*Callithrix jacchus*); (Liver); (Lung) (Schulz, T.G. (1298) 131)

Inflammation
Glycoprotein, multidomain; Thrombospondin 1; Monoclonal antibody; Sulfhydryl–disulfide interchange; Cell-matrix interaction; (Human rheumatoid synovial fluid) (Matthias, L.J. (1296) 138)

cDNA cloning; Gene structure; Chromosomal localization; Targeted gene disruption; Leukotriene; Platelet; Macrophage; Epidermis (Funk, C.D. (1304) 65)

Acute phase protein; Ontogeny; mRNA quantitation (Rygg, M. (1307) 89)

Free radical; Oxidant; Selectin expression; Integrin expression (Fraticelli, A. (1310) 251)

S100 protein; Chemotaxis; Macrophage; Endothelial cell; Cytokine (Geczy, C. (1313) 246)

Free radical; Oxidant; Integrin expression; Ischemia; Reperfusion injury (Serrano Jr., C.V. (1316) 191)

Ceruloplasmin; Lipoprotein; LDL; Oxidation; (Rat) (DiSilvestro, R.A. (1317) 81)

Inflammatory mediator
PAF; Acetylhydrolase; Pefabloc; Lipoprotein (Dentan, C. (1299) 353)

Influence of anions
Copper binding constant; Copper dissociation rate constant; Transferrin; (Human serum) (Hirose, J. (1296) 103)

Influenza
Fusion; Phosphatidylserine; Asymmetry; Hemagglutinin; Hemolysis; Erythrocyte (Pak, C.C. (1278) 98)

Influenza A virus
Ganglioside; Sphingomyelin; Glucosylceramide; Quartz crystal microbalance; Air/water interface monolayer (Sato, T. (1285) 14)

Influenza B virus
Fatty acid β-oxidation; Palmitic acid; Octanoic acid; Reye's syndrome; Surfactant; Acute hepatic encephalopathy; (Mouse liver) (Murphy, M.G. (1315) 208)

Infrared spectroscopy
Plasminogen activation; Staphylokinase; Solution structure; Thermal stability; Hydrogen–deuterium exchange (Dornberger, U. (1294) 168)

Inhibiting import
Mitochondrial import; Processing; (*Glycine max* L.) (Whelan, J. (1312) 48)

Inhibition
Beticolin; ATPase, H^+-; Pyrophosphatase, H^+-; Magnesium ion complex (Gomès, E. (1285) 38)

Archaea; NAD glutamate dehydrogenase; Activation; (*Halobacterium halobium*) (Bonete, M.J. (1289) 14)

Thymidylate synthase; 2,4-dithio-dUMP; 2,4-dithio-5-fluoro-dUMP; Aromaticity (Dzik, J.M. (1293) 1)

Carboxyl esterase; Activated carbonyl; Carbonyl hydrate; Reaction mechanism; (Chicken liver) (Berndt, M.C. (1298) 159)

Carboxyl esterase; Serine esterase; NMR, ^{19}F-; Reaction mechanism; (Chicken liver) (Bowles, M.R. (1298) 167)

Phospholipase A_2; Methyl arachidonyl fluorophosphonate (Lio, Y.-C. (1302) 55)

Phosphatidylethanolamine methylation; Phosphatidylethanolamine *N*-methyltransferase; Bezafibrate; Clofibric acid; (Rat hepatocyte) (Nishimaki-Mogami, T. (1304) 11)

Microbial lipase; Phosphonate; Triacylglycerol analog; Fluorescent pyrene lipid; Stereoselectivity (Stadler, P. (1304) 229)

Phosphocitrate; Metalloproteinase; Calcium crystal; AP-1 (Cheung, H.S. (1315) 105)

Inhibitor
Sodium/D-glucose cotransport; Brush border membrane; Alkylglucoside; Glucose-binding pocket; (Kidney) (Kipp, H. (1282) 124)

Lipoprotein; Taste, bitter; Hydrophobic membrane; (Frog tongue) (Katsuragi, Y. (1289) 322)

8-Azapurine; Nucleoside; Fluorescence emission; Purine nucleoside phosphorylase; Substrate (Wierzchowski, J. (1290) 9)

Differentiation protein; Helix-loop-helix; Molecular modeling; Transcription factor; Dimerization (Wibley, J. (1294) 138)

Serine proteinase; Cysteine proteinase; Hydroxamate; (Mechanism) (Demuth, H.-U. (1295) 179)

HMG-CoA reductase inhibitor; Differentiation; (Rat skeletal muscle cell); (Growth) (Veerkamp, J.H. (1315) 217)

Inhibitor complex
Mitochondrial cytochrome bc_1 complex; Electron transport; Protein crystallization; Co-crystallization of cytochrome bc_1–cytochrome *c* complex (Yu, C.-A. (1275) 47)

Inhibitor, lipophilic
Lipid activation; Boundary lipid; Cooperativity index; ATPase, Na^+,K^+-; Lactose permease (Sandermann Jr., H. (1300) 219)

Inhibitor protein
ATPase, F_1-; Histidine; Transition; pH dependence; (Bovine) (Schnizer, R. (1292) 241)

Inhibitor TRTK-12
S100 protein; Glial fibrillary acidic protein; Calcium ion; Epitope (Bianchi, R. (1313) 258)

Initiation
Molecular cloning; Ferredoxin; Iron-sulfur; Lipopolysaccharide; (*Chromatium vinosum*) (Moulis, J.-M. (1308) 12)

Protein synthesis; Mitochondrion; Ribosome; mRNA (Farwell, M.A. (1309) 122)

Initiation codons
Cystic fibrosis transmembrane conductance regulator; Yeast; Expression; Chloride ion channel (Huang, P. (1281) 80)

Initiator protein
Plasmid pSC101; DNA replication; Iteron (Fueki, T. (1305) 181)

Inorganic phosphate
Myofilament sliding; ATP hydrolysis; ATP, caged; Laser flash photolysis; ADP (Wada, H. (1274) 89)

Inorganic pyrophosphatase
Glucose-6-phosphatase; *N*-Bromoacetylethanolamine phosphate; Microsome; PP_i:glucose phosphotransferase; (Rat liver) (Foster, J.D. (1297) 244)

Inositol lipid
Phosphoglycolipid; Parasite glycolipid; Nematode glycolipid; (*A. suum*) (Sugita, M. (1302) 185)

***myo*-Inositol 1-phosphatase**
Zinc ion-dependent acid phosphatase; Phosphatase; (Bovine brain) (Caselli, A. (1290) 241)

Inositol phosphate
Spermine; Spermidine; Molecular complexation (Mernissi-Arifi, K. (1289) 404)

cyclic AMP; Keratinocyte; Transforming growth factor-β; Isoform (Collier, A.J. (1315) 117)

Inositol phospholipid
Trypomastigote; (*T. cruzi*) (Uhrig, M.L. (1300) 233)

Inositol tetrakisphosphate
Phosphoinositide breakdown; Cerebrocortical slice; Muscarinic receptor; Depolarization; Osmolarity (Myles, M.E. (1310) 19)

Inositol trisphosphate
Calcium; Beta cell; Acetylcholine; Membrane potential (Gromada, J. (1310) 145)

Insect immunity
Tick; Ki antigen; PA28; Proteasome; Autoimmunity (Paesen, G.C. (1309) 9)

In situ hybridization
Topoisomerase II; Expression site; Fetal tissue; mRNA (Zandvliet, D.W.J. (1307) 239)

Endothelin; Suprachiasmatic nucleus; cDNA; (Clock) (Kurama, M. (1307) 249)

Digoxigenin; Mitochondrial DNA; Common deletion (Nakamura, N. (1308) 215)

Muscarinic receptor; Gastric mucosa; Parietal cell; Brain (Helander, K.G. (1312) 158)

Instability motif
Splicing variant; mRNA; *hMSH2* gene; Nonsense codon; (Human lymphocyte) (Marshall, B. (1308) 88)

Insulin
Potassium ion transport; Insulin receptor; Fibroblast; Cotransporter, $Na^+/K^+/Cl^-$; ATPase, Na^+/K^+-; (Human) (Longo, N. (1281) 38)

Choline kinase; Cultured cell; Epidermal growth factor; Glycerophosphate acyltransferase; Phospholipid; (Human) (Uchida, T. (1304) 89)

$Alpha_2$ cell; Calcium ion oscillation; Glucose; Amino acid; Adrenaline (Berts, A. (1310) 212)

cyclic AMP; Protein synthesis; L6 myoblast; Mitogen-activated protein kinase (Thompson, M.G. (1311) 37)

Apoptosis; IGF-1; Serum starvation (Yang, B.-C. (1314) 83)

Glucose transport; Thyroid hormone; GLUT-1; Clone 9 cell; Activation (Shetty, M. (1314) 140)

High-fat diet; Liver; Pyruvate dehydrogenase complex; Starvation (Sugden, M.C. (1316) 114)

Insulin action
Vanadate action; PTPase; Phenylarsine oxide (Li, J. (1312) 223)

Skeletal muscle; Adenosine agonist; Glucose fatty acid cycle; Diabetes, non-insulin-dependent (Webster, J.M. (1316) 109)

Insulin analogue
Deletion of intra-A chain disulfide bond; Physico-chemical property; Biological activity; (Human) (Dai, Y. (1296) 63)

Insulin binding
Peroxovanadate; Vanadate; Insulin degradation; Glucose transport; Rat adipocyte (Yu, Z.-W. (1310) 103)

Insulin degradation
Peroxovanadate; Vanadate; Insulin binding; Glucose transport; Rat adipocyte (Yu, Z.-W. (1310) 103)

Insulin inhibition
Staurosporine; Serine/threonine phosphorylation; Okadaic acid (Rondinone, C.M. (1314) 49)

Insulin-like growth factor
Mannose 6-phosphate receptor; Insulin-like growth factor receptor; Caco-2 cell (Dahms, N.M. (1279) 84)

Insulin-like growth factor receptor; Growth hormone receptor; IGF-II/mannose-6-phosphate receptor; β-Actin; IM-9 lymphoblast (Yang, Y. (1310) 317)

Insulin-like growth factor-I
Insulin receptor substrate-I; cyclic AMP; Human chorionic gonadotropin; Phosphorylation; Ovary (Talavera, F. (1310) 10)

Insulin-like growth factor-II
Charcoal adsorption; Site exclusion chromatography (Bach, L.A. (1313) 79)

Insulin-like growth factor receptor
Mannose 6-phosphate receptor; Insulin-like growth factor; Caco-2 cell (Dahms, N.M. (1279) 84)

Insulin-like growth factor; Growth hormone receptor; IGF-II/mannose-6-phosphate receptor; β-Actin; IM-9 lymphoblast (Yang, Y. (1310) 317)

Insulin receptor
Potassium ion transport; Fibroblast; Insulin; Cotransporter, $Na^+/K^+/Cl^-$; ATPase, Na^+/K^+-; (Human) (Longo, N. (1281) 38)

Insulin receptor substrate-I
Insulin-like growth factor-I; cyclic AMP; Human chorionic gonadotropin; Phosphorylation; Ovary (Talavera, F. (1310) 10)

Insulin-regulated glucose transporter GLUT4
Glucose transport; 3-[^{125}I]Iodo-4-azidophenetylamido-7-O-succinyldeacetyl-forskolin; Cytochalasin B (Wandel, S. (1284) 56)

Insulin release
Pancreatic islet; Prostaglandin; Eicosanoid; GTP-binding protein; Interleukin; Cyclooxygenase (Sjöholm, Å. (1313) 106)

Insulin secretion
βTC3; Hypoxia; Anoxia; Bioartificial pancreas (Papas, K.K. (1291) 163)

Insulin sensitivity
IGF-II receptor; Phospholipase C; cyclic AMP; Phosphatase inhibitor; Plasma membrane; (Rat adipocyte) (Yu, Z.-W. (1282) 57)

Intact chloroplast
Maltose; Maltodextrin; Uptake; Kinetics; (Spinach) (Rost, S. (1291) 221)

Integrated rate equation
Nonlinear regression; Progress curve; Substrate inhibition; Correlation (Schiller, M.R. (1297) 17)

Integrin
NMR; Peptide; Receptor; Binding; Structure (Mayo, K.H. (1296) 95)

Ganglioside; Platelet; Adhesion (Valentino, L.A. (1316) 19)

$\alpha_v\beta_3$ Integrin
Haptotaxis; Chemotaxis; Fibrinogen; Vitronectin (Senger, D.R. (1314) 13)

Integrin expression
Free radical; Oxidant; Inflammation; Selectin expression (Fraticelli, A. (1310) 251)

Free radical; Oxidant; Inflammation; Ischemia; Reperfusion injury (Serrano Jr., C.V. (1316) 191)

Interaction
Vitamin D_3; Parathyroid hormone; Bone; Osteoblast; Second messenger (Van Leeuwen, J.P.T.M. (1312) 55)

Interaction, competitive
P-glycoprotein; Modulator interaction; Cooperativity; Interaction, non-competitive; Multidrug resistance (Ayesh, S. (1316) 8)

Interaction, non-competitive
P-glycoprotein; Modulator interaction; Cooperativity; Interaction, competitive; Multidrug resistance (Ayesh, S. (1316) 8)

Intercellular adhesion molecule-1
Phorbol myristate acetate; Tumor necrosis factor-α (Fritz, S. (1312) 255)

Intercellular junction
Major intrinsic protein; Junctional lipid; Boundary lipid; Cholesterol; Ethanolamine glycerophospholipid; Sphingomyelin; (Bovine ocular lens) (Baumann, C.G. (1303) 145)

Intercellular translocation
Microinjection; Lucifer yellow; Multichannel microelectrode system (Saito, M. (1289) 1)

Interdigitated gel structure
Chi parameter; Excimer method; Phase transition; Phospholipid; Deuterium oxide (Kinoshita, K. (1284) 233)

Interdigitation
Ethyl alcohol; Permeability; Liposome; Sterilization (Komatsu, H. (1283) 73)

Interferon
Gene structure; Viral response element; (Antiviral activity); (Rabbit); (Sheep) (Liu, L. (1294) 55)

Interleukin-1; Interleukin-4; Cyclooxygenase-2; Prostaglandin E_2; WISH cell (Harding, L. (1310) 48)

Interferon-α
Myeloid cell nuclear differentiation antigen; DNA methylation (Kao, W.Y. (1308) 201)

Interferon-γ
Lipopolysaccharide; Oxygen consumption; Mitochondrial dysfunction (Glover, R.E. (1310) 5)

Interheme interaction
Electron transport protein; Cytochrome c_3; Multi-redox site; NMR, ^{1}H-; pH effect; (*D. vulgaris* Myazaki F) (Park, J.-S. (1293) 45)

Interleukin
Pancreatic islet; Insulin release; Prostaglandin; Eicosanoid; GTP-binding protein; Cyclooxygenase (Sjöholm, Å. (1313) 106)

Interleukin-1
Cholesterol esterification; Atherosclerosis (Mazière, C. (1300) 30)

Interleukin-4; Interferon; Cyclooxygenase-2; Prostaglandin E_2; WISH cell (Harding, L. (1310) 48)

Interleukin-1β
Cathepsin B; Osteoblast-like cell; Parathyroid hormone; Intracellular enzyme activity; Extracellular enzyme activity (Aisa, M.C. (1290) 29)

Interleukin-2 receptor
Peptide nucleic acid; Triple-helix; Anti-gene strategy; Strand invasion; Transcription regulation (Praseuth, D. (1309) 226)

Interleukin-4
Interleukin-1; Interferon; Cyclooxygenase-2; Prostaglandin E_2; WISH cell (Harding, L. (1310) 48)

Interlipidic particle
Controlled release; Drug delivery; Electron microscopy; Light-triggerable liposome; Liposome; Photodynamic therapy; Photooxidation; Plasmalogen (Thompson, D.H. (1279) 25)

Intermediate filament
GFAP; Desmin; S100 protein; Calcium; Epitope (Garbuglia, M. (1313) 268)

Intermolecular force
Unbinding force; Bond lifetime; Surface denaturation; Actin–actinin bond (Miyata, H. (1290) 83)

Internalization
Adenosine A_1 receptor; Desensitization; Coated vesicle; Phenylisopropyl adenosine; Rat brain; Adenylyl cyclase (Ruiz, A. (1310) 168)

Internal perfusion
Whole-cell recording; Sodium ion depletion; Sodium pump current; Reversal potential; Ionic gradient; (Cardiac Purkinje cell) (Glitsch, H.G. (1278) 137)

Inter-protein cross-reaction
Copper protein, type 1; Amicyanin; Cytochrome c_{550}; Metalloprotein (redox) kinetics; MADH electron-transport chain; (*T. versutus*) (Kyritsis, P. (1295) 245)

Intersubunit disulfide bond
Phosphatase; Purple acid phosphatase; Denaturation; Unfolding intermediate; (Red kidney bean) (Cashikar, A.G. (1296) 76)

Intervertebral disc
Phospholipase A_2; Cartilage; Chondrocyte; Spine; (Human) (Miyahara, K.-i. (1316) 183)

Intestinal absorption
Thyrotropin-releasing hormone; Lauric acid conjugated thyrotropin-releasing hormone; Oligopeptide transporter; Carrier-mediated transport; Absorption enhancer (Tanaka, K. (1283) 119)

Proton-coupled transport; Oligopeptide transport; Membrane transport protein; Transporter; *Xenopus* oocyte (Mackenzie, B. (1284) 125)

Intestinal folate transport
Folate transport; cDNA library; DNA sequencing; (*Xenopus* oocyte) (Said, H.M. (1281) 164)

Intestinal growth
Intestine; Phytohemagglutinin; Polyamine; Transglutaminase (Sessa, A. (1314) 66)

Intestine
Phospholipase B; Glycosylation; (Guinea pig) (Delagebeaudeuf, C. (1303) 119)

Guanylyl cyclase C; Gene expression; Caco-2 (Mann, E.A. (1305) 7)

Mucin; Hydrophobic segment; Dicarboxylate; Ion transport (Khatri, I.A. (1309) 58)

Intestinal growth; Phytohemagglutinin; Polyamine; Transglutaminase (Sessa, A. (1314) 66)

Intracellular calcium
Chondrocyte; Histamine; Fura-2; Cartilage (Horwitz, E.R. (1313) 95)

Intracellular calcium regulation
Arachidonic acid; U937 cell; Phospholipase A_2; Cytosol; Calcium influx factor (Rzigalinski, B.A. (1299) 342)

Intracellular distribution
Translational control; Eukaryotic translation initiation factor 4E; Nuclear localization sequence; 5′ cap binding; (Yeast) (Ptushkina, M. (1308) 142)

Intracellular enzyme activity
Cathepsin B; Osteoblast-like cell; Interleukin-1β; Parathyroid hormone; Extracellular enzyme activity (Aisa, M.C. (1290) 29)

Intracellular pH
BCECF; Human platelet; Na^+/H^+ exchange (Aharonovitz, O. (1284) 227)

Intracellular processing
Liver; Ethanol; Lysosome; Proteinase; Hydrolase; Trafficking; Cathepsin L (Kharbanda, K.K. (1291) 45)

Intracellular proteinase
Calpain; Calcium; cDNA cloning; Cysteine proteinase; Proteinase (Sorimachi, H. (1309) 37)

Intracellular trafficking
Pulmonary surfactant; Secretion; Propeptide (Lin, S. (1312) 177)

Intracellular trehalase
Trehalose; Trehalase; Extracellular trehalase; (*S. thermophilum*) (Kimiko Kadowaki, M. (1291) 199)

Intracrinology
5α-Reductase; Steroidogenesis; Cloning; Expression; (Rat) (Lopez-Solache, I. (1305) 139)

Intranuclear matrix protein
cDNA; Sequence analysis; Molecular cloning (Menz, K. (1309) 14)

Intrinsic blood coagulation
Factor XII; Contact phase; Coagulation; (Porcine blood) (Mashiko, H. (1296) 198)

Intrinsic curvature
Lateral pressure; Elastic energy; Inverted hexagonal (H_{II}) phase; Phosphatidylethanolamine (Marsh, D. (1279) 119)

Intrinsic monolayer curvature
Membrane surface polarity; Membrane/water interface; Bilayer-hexagonal transition (Epand, R.F. (1284) 191)

Intrinsic uncoupling
Sarcoplasmic reticulum; Calcium ion pump; Thapsigargin; Gating (Davidson, G.A. (1289) 187)

Intronless coding sequence
Centromere protein B; Genomic clone; (Hamster) (Bejarano, L.A. (1307) 21)

Invertase, S- and F-form
Extracellular enzyme; Purification; Characterization; (*A. nidulans*) (Chen, J.-s. (1296) 207)

Invertebrate
Planaria; Guanine nucleotide binding protein; Protein secretion; Polymerase chain reaction amplification; ADP-ribosylation factor (Saitoh, O. (1309) 205)

Invertebrate hemoglobin
Hemoglobin; Linker chain; Amino-terminal amino acid sequence; Two-dimensional gel electrophoresis; (*L. terrestris*) (Fushitani, K. (1292) 273)

Inverted hexagonal (H_{II}) phase
NMR; Phospholipid; Pulsed electric field (Osman, P. (1278) 160)

Lateral pressure; Intrinsic curvature; Elastic energy; Phosphatidylethanolamine (Marsh, D. (1279) 119)

Inverted hexagonal phase
Cholesterol; Phosphatidylethanolamine; Lamellar phase; DSC; X-ray diffraction (Takahashi, H. (1289) 209)

Inverted inner membrane vesicle
C_6-NBD-phospholipid; Transmembrane movement; Dithionite; (*E. coli*) (Huijbregts, R.P.H. (1280) 41)

In vitro synthesis
Retinoic acid; Sertoli cell; Peritubular cell; Cellular retinol binding protein (Cavazzini, D. (1313) 139)

In vivo footprinting
C2C12; Negative transcription factor; Transfection; Gel retardation assay (Ikeda, K. (1308) 67)

Ion channel
Alamethicin; Free radical; Ionizing radiation; Tryptophan (Zeidler, U. (1281) 73)

Trichosporin; *Trichoderma polysporum*; Peptaibol; Adrenal chromaffin cell; Catecholamine (Nagaoka, Y. (1283) 31)

Ion distribution
X-ray diffraction; Lipid; Gouy-Chapman theory; Membrane electrostatics (Kirchner, S. (1279) 181)

Ion-exchange chromatography
Proteinase ECP 32; Metalloproteinase; Purification; Characterization; Gel filtration (size exclusion); (*E. coli*) (Matveyev, V.V. (1296) 55)

Ion fluctuation
Dielectric relaxation; DNA packing (Bone, S. (1306) 93)

Ionic channel
Ionic transport; Monte Carlo simulation; Hydration shell; Electrolitic solution (Degrève, L. (1274) 149)

Heat shock protein hsp70; Potassium conductance; Patch clamp; U937 cell (Negulyaev, Yu.A. (1282) 156)

Ionic denaturant
Myoglobin; Cytochrome *c*; Denaturation; Protein stability (Ahmad, Z. (1294) 63)

Ionic gradient
Whole-cell recording; Internal perfusion; Sodium ion depletion; Sodium pump current; Reversal potential; (Cardiac Purkinje cell) (Glitsch, H.G. (1278) 137)

Ionic selectivity
Monensin; Proton–cation exchange; Viscosity; Dipolar field; Time-resolved polarization; Polarization (Nachliel, E. (1285) 131)

Ionic strength
Motility, in vitro; Actomyosin interaction; ATP (Kellermayer, M.S.Z. (1277) 107)

Differential scanning calorimetry; Organic solvent; Sorbitol; Thermostability; Water activity (Öste-Triantafyllou, A. (1295) 110)

Ionic strength effect
Raman spectroscopy; Phage T7; DNA structure; Structure loosening (Gróf, P. (1289) 95)

Ionic transport
Ionic channel; Monte Carlo simulation; Hydration shell; Electrolitic solution (Degrève, L. (1274) 149)

Ionizing radiation
Ion channel; Alamethicin; Free radical; Tryptophan (Zeidler, U. (1281) 73)

Signal transduction; EGF receptor; Antibody (Balaban, N. (1314) 147)

β-Ionone
Model membrane; Membrane fluidity; Odorant; Menthone; FTIR; NMR, ^{2}H- (Bouchard, M. (1282) 233)

Ionophore A23187
Zinc binding; Zinc binding site; Cadmium; Brush border membrane (rat kidney cortex) (Prasad, R. (1284) 69)

Ion pump
Membrane potential; Carotenoid; Halobacterium; (Archaebacterium) (Ichi Seki, S. (1284) 79)

Ion transport
Lipid bilayer; Supported lipid bilayer; Impedance spectroscopy; Gramicidin D (Steinem, C. (1279) 169)

Membrane transport; Phospholipid vesicle; Proton uncoupler; Valinomycin (Prabhananda, B.S. (1282) 193)

ATPase, V-; E-subunit; Proton pump; Diptera; (*D. melanogaster*) (Guo, Y. (1283) 4)

H^+/K^+ exchange; Plasma membrane; *Saccharomyces cerevisiae* (Ramírez, J. (1285) 175)

ATPase, Na^+/K^+-; Reaction sequence; Kinetics; Conformational change (Pratap, P.R. (1285) 203)

Mucin; Intestine; Hydrophobic segment; Dicarboxylate (Khatri, I.A. (1309) 58)

Ion transport inhibition
Adriamycin; Propranolol; Potassium ion channel, Ca^{2+}-dependent; Transitional metal; (Human erythrocyte) (Davtyan, T.K. (1297) 182)

Iron absorption
Lactoferrin; Transferrin; Nitric oxide (Sánchez, L. (1289) 291)

Iron chelate
Nitroprusside; Superoxide anion radical; Hydroxyl radical; Spin trap; Microsome; Redox cycling (Rao, D.N.R. (1289) 195)

Iron chelation
Lipid peroxidation; Free-radical scavenger; Antioxidant; Polyphenol, green tea; EPR; Synaptosome; (Rat) (Guo, Q. (1304) 210)

Iron complex
Dinitrosyl iron complex; Nitric oxide; Vasodilation (Vanin, A.F. (1295) 5)

Iron concentration, incubation time
Lipid peroxidation; Membrane transport; Transferrin-free iron; Rabbit reticulocyte; Piperazine ring-based buffer; Scavenger/producer (Qian, Z.M. (1310) 293)

Iron deficiency
Iron loading; Fe; Copper; ^{64}Cu-uptake; Neonatal tissue development; (Rat) (Crowe, A. (1291) 53)

Iron(II)
Parkinson's disease; Dopamine; 6-Hydroxydopamine; Iron(III); Manganese(II); Fenton's reagent; Nicotine (Linert, W. (1316) 160)

Iron(III)
Parkinson's disease; Dopamine; 6-Hydroxydopamine; Iron(II); Manganese(II); Fenton's reagent; Nicotine (Linert, W. (1316) 160)

Iron loading
Iron deficiency; Fe; Copper; ^{64}Cu-uptake; Neonatal tissue development; (Rat) (Crowe, A. (1291) 53)

Iron removal
Photosynthesis; Reaction center; Electron spin polarization; Quinone; Triplet; Carotenoid; Electron paramagnetic resonance; Spectral simulation (Bosch, M.K. (1276) 106)

Iron-sulfur
Molecular cloning; Ferredoxin; Lipopolysaccharide; Initiation; (*Chromatium vinosum*) (Moulis, J.-M. (1308) 12)

Iron-sulfur cluster
Cytochrome bc_1 complex; Histidine ligand; Q_P pocket; 'Rieske' iron-sulfur cluster; Stigmatellin binding (Link, T.A. (1275) 54)

Stopped-flow spectroscopy; Reduction potential; Site-directed mutagenesis; (*C. pasteurianum*); (*E. histolytica*) (Quinkal, I. (1295) 201)

NAD(P)-reducing hydrogenase; NAD(P)H dehydrogenase; Complex I; Cyanobacterium; (*Synechocystis*) (Appel, J. (1298) 141)

Iron supplementation
Soybean root; Oxygen radical generation; Antioxidant (Caro, A. (1291) 245)

Iron transport
Sodium/magnesium antiport; Erythrocyte (Stonell, L.M. (1282) 163)

Irreversibility
Kinetics; Aggregation; Stability; Unfolding (Srinivasulu, S. (1294) 115)

Ischemia
β-Adrenergic receptor; Hypoxia; pH (Schmedtje Jr., J.F. (1314) 25)

Free radical; Oxidant; Inflammation; Integrin expression; Reperfusion injury (Serrano Jr., C.V. (1316) 191)

Protein kinase C; Isoform; (Rat) (Yoshida, K.-i. (1317) 36)

Ischemia-reperfusion injury
Chinonin; Nitrous oxide; Oxygen free radical; Electron spin resonance (Zhao, B.-L. (1315) 131)

Isoenzyme
Glyoxysome; Mitochondrion; Chaperone; Folding; (*Citrullus vulgaris*) (Gietl, C. (1274) 48)

Carbonic anhydrase; Carbonate; Crystal nucleation; Crystallinity; Enamel development; Mineralization (Kakei, M. (1289) 226)

Isoflavonoid
Drug–lipid interaction; Liposome; Aggregation; Phosphatidylinositol (Lehtonen, J.Y.A. (1285) 91)

Isoform
ATPase, Ca^{2+}-; Calcium pump; Plasma membrane; (Human) (Brown, B.J. (1283) 10)

DNA topoisomerase II; Spermatogenesis; Chromatin (Galande, S. (1308) 58)

Phosphofructokinase; Beta cell; Expression; Characterization; (Rat pancreas) (Ma, Z. (1308) 151)

Inositol phosphate; cyclic AMP; Keratinocyte; Transforming growth factor-β (Collier, A.J. (1315) 117)

Protein kinase C; Ischemia; (Rat) (Yoshida, K.-i. (1317) 36)

Isoindole
Glutamate dehydrogenase; *o*-Phthalaldehyde; Enzyme inactivation; (Bovine liver) (Pandey, A. (1293) 122)

Isolated hepatocyte
Nitrite toxicity; Nitrate; (*O. mykiss*) (Doblander, C. (1289) 270)

Isolation
Cobalamin; Cow milk; Sequence; Transcobalamin (Fedosov, S.N. (1292) 113)

Isolation method
Photosynthetic reaction center; Poly-histidine tag; (Bacterium) (Goldsmith, J.O. (1276) 171)

Isomaltase
Brush border membrane; Glucoamylase; α-Glucosidase; Maltase; Sucrase; (Intestine); (*R. japonica*) (Takesue, Y. (1296) 152)

***cis* Isomer**
trans Isomer; Monoenoic fatty acid; Platelet; Aggregation; Thromboxane; Collagen; Thrombin; (Porcine) (Wahle, K.W.J. (1301) 141)

***trans* Isomer**
cis Isomer; Monoenoic fatty acid; Platelet; Aggregation; Thromboxane; Collagen; Thrombin; (Porcine) (Wahle, K.W.J. (1301) 141)

Isomerization
Retinoic acid; Retinol; UDP-glucuronosyl transferase; Glucuronidation; Rat liver microsome; Enzyme induction (Genchi, G. (1289) 284)

Lipase, microbial; Acylglycerol; Alkylglycerol; Stereoselective hydrolysis; Esterification (Kovac, A. (1301) 57)

Isoprenoid
Carotenoid; Mutant; (*Mucor circinelloides*) (Fraser, P.D. (1289) 203)

Ubiquinone; Polyprenyl diphosphate synthase (Okada, K. (1302) 217)

Isoprenoid pyrophosphate
Squalene synthase; Dolichol; Ubiquinone; Squalestatin; Zaragozic acid (Keller, R.K. (1303) 169)

Isoprenylation
Methylation; Signal transduction; G protein; Membrane (Rando, R.R. (1300) 5)

RalA; RalB; Ras-related GTP-binding protein; Platelet; Subcellular distribution; Concentration (Jilkina, O. (1314) 157)

Isoproterenol
Lipoxygenase; Hydroperoxidase; Lag period; Oxidation; Xenobiotic (Núñez-Delicado, E. (1293) 17)

Parotid gland; Amylase secretion; Guanine nucleotide-binding protein; ADP-ribosylation; Phosphorylation; (Rat) (Amano, I. (1313) 146)

Isothermal induction
Δ^9-Desaturase; Desaturase induction; Hepatocyte; Lipid vesicle; (Carp liver) (Macartney, A.I. (1302) 207)

Isotope exchange, hydrogen/deuterium
Hydrogenase; Enzyme regulation; (*A. vinelandii*) (McTavish, H. (1294) 183)

Isotope labeling
Bacterial photosynthetic reaction center; Photosynthetic reaction center; FTIR difference spectroscopy; Quinone electron acceptor (Breton, J. (1275) 84)

Isotorachrysone
Lipid peroxidation; Peroxyl radical; Superoxide anion; Hydroxyl radical; LDL; Free radical; Antioxidant (Hsiao, G. (1298) 119)

Isozyme
Chymotrypsin; Cold adaptation; N-terminal amino-acid sequence analysis; Mass spectrometry; Serine proteinase; (*G. morhua*) (Leth-Larsen, R. (1297) 49)

Lignin degradation; Manganese peroxidase; Hydrogen peroxide; Heme; (*D. squalens*) (Périé, F.H. (1297) 139)

Iteron
Plasmid pSC101; DNA replication; Initiator protein (Fueki, T. (1305) 181)

J

J774 A.1 cell
Neutral cholesterol esterase; Estradiol 17β; Estradiol 17α; cyclic AMP-dependent protein kinase; Cholesteryl ester accumulation (Tomita, T. (1300) 210)

JAR choriocarcinoma cell
Carnitine; High affinity transport; High affinity binding; Plasma membrane; Human placenta (Prasad, P.D. (1284) 109)

Junctional lipid
Major intrinsic protein; Intercellular junction; Boundary lipid; Cholesterol; Ethanolamine glycerophospholipid; Sphingomyelin; (Bovine ocular lens) (Baumann, C.G. (1303) 145)

Jurkat cell
Liposome; Fusion; Diphtheria toxin fragment A; Poly(ethylene oxide)-bearing lipid; Cytochalasin B (Higashi, N. (1285) 183)

K

rfbK
Phosphomannomutase; Phosphoglucomutase; *algC*; Polysaccharide; (*Prochlorothrix*) (Dwivedi, K. (1290) 210)

Kallikrein
Kallikrein-binding protein; Serpin; Promoter activity; Hypertension; Gel retardation; (Rat); (Kidney) (Ma, J.-x. (1307) 285)

Kallikrein-binding protein
Kallikrein; Serpin; Promoter activity; Hypertension; Gel retardation; (Rat); (Kidney) (Ma, J.-x. (1307) 285)

K562 cell
c-*Fes*; Promoter region; Transcription initiation; Negative regulatory element; TF-1 cell; Myeloid leukemia cell (He, Y. (1306) 179)

Kearns-Sayre syndrome
Deletion; Encephalomyopathy; mtDNA; Oxidative phosphorylation; Pearson's syndrome; Polymerase chain reaction; Progressive external ophthalmoplegia; Respiratory chain (Fromenty, B. (1308) 222)

Mitochondrion; Polymerase chain reaction; Zidovudine; 3′-Azido-2′,3′-dideoxythymidine (Wang, H. (1316) 51)

Keratan sulfate proteoglycan
Corneal protein; Fluorescence spectroscopy; Red-edge excitation shift (Uma, L. (1294) 8)

Keratin
Aryl hydrocarbon receptor; Dioxin; Retinoic acid; ARNT protein; Psoriasis (Wanner, R. (1317) 105)

Keratinocyte
Prenylation; Farnesyl; Geranylgeranyl; Zaragozic acid (MacNulty, E.E. (1289) 41)

Phospholipase A_2, cytosolic; Ultraviolet light; Oxidative stress; Synthesis; Prostaglandin (Chen, X. (1299) 23)

Ether lipid; Tissue culture; Lipid metabolism (Oku, H. (1300) 35)

Transforming growth factor α; Prostaglandin; Mitogenic signaling (Hanke, B. (1310) 137)

Retinoic acid; Retinoid; Metabolism; Albumin; Retinoic acid uptake (Hodam, J.R. (1311) 102)

Inositol phosphate; cyclic AMP; Transforming growth factor-β; Isoform (Collier, A.J. (1315) 117)

Ketone body
Dietary L-carnitine; Triacylglycerol; Carnitine palmitoyltransferase I; (Wistar rat) (Clouet, P. (1299) 191)

Ketone body ratio
Cytokine; Adenine nucleotide; Nitric oxide; Rat hepatocyte (Kitade, H. (1311) 20)

Kex2p
Exoglucanase (β-glucosidase); Secretion; *Sec7*; (*S. cerevisiae*) (Basco, R.D. (1310) 110)

Khellin
Adenylyl cyclase; Ultraviolet A; G protein; Pertussis toxin; HeLa cell (Di Stefano, A. (1314) 105)

Ki antigen
Tick; PA28; Proteasome; Insect immunity; Autoimmunity (Paesen, G.C. (1309) 9)

Kidney
β-Mannosidase; Purification; Urine; (Human) (Guadalupi, R. (1293) 9)

Prolidase; Northern blot analysis; (Mouse) (Ishii, T. (1308) 15)

Glycine; Serine; NMR; Proximal tubule (Cowin, G.J. (1310) 32)

Glycine; Serine; NMR; Proximal tubule (Cowin, G.J. (1310) 41)

Collecting duct; Calcium ion; Hybridization, in situ; Immunohistochemistry; Tamm-Horsfall protein; (*Cricetomys gambianus*); (African giant rat) (Moutairou, K. (1313) 187)

Kinase C
Diacylglycerol; Arachidonic acid; Calcium; Lipid; Vesicle (Schachter, J.B. (1291) 167)

Kinetic mechanism
Enzyme inhibition; Slow binding; Theoretical analysis (Sculley, M.J. (1298) 78)

Kinetic model
Chlorophyll; Excitation energy transfer; Photosynthesis; Picosecond fluorescence; Primary charge separation; Thermal equilibrium (Dau, H. (1273) 175)

Kinetic modelling
Poly(ethylene glycol)-bound NAD^+; Alcohol dehydrogenase; Reductive amination, stereospecific; Molecular dynamics and mechanics; (Horse liver) (Vanhommerig, S.A.M. (1295) 125)

Kinetics
Membrane potential; *Peperomia metallica*; Photocurrent; Patch clamp; Q-cycle (Van Voorthuysen, T. (1277) 226)

Phosphatidylcholine; Phosphatidylglycerol; Polyelectrolyte; Micellization; Adsorption (Thomas, J.L. (1278) 73)

Surfactant; Surfactant apoprotein; Membrane fusion; Tubular myelin; Myelin (Poulain, F.R. (1278) 169)

Glutamate; Transport; Sodium ion cotransport; Brush border membrane vesicle; (Rat intestine) (Prezioso, G. (1279) 144)

ATPase, Na^+/K^+-; Reaction sequence; Conformational change; Ion transport (Pratap, P.R. (1285) 203)

Intact chloroplast; Maltose; Maltodextrin; Uptake; (Spinach) (Rost, S. (1291) 221)

Laccase; Redox potential; Stability; Bilirubin oxidase; Fungus (Xu, F. (1292) 303)

Cleavage site; Collagen; Gelatin; Gelatinase; Peptide (Xia, T. (1293) 259)

Irreversibility; Aggregation; Stability; Unfolding (Srinivasulu, S. (1294) 115)

Sterol biomethylation; Membrane fluidity; (*S. cerevisiae*) (Venkatramesh, M. (1299) 313)

Kinetic study
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Familial amyloidotic polyneuropathy; Transthyretin variant; Amyloid formation; Fluorimetric assay; Sulfate (Bonifácio, M.J. (1316) 35)

Kinetoplast
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Kinetoplastida
Ribosome; Ribosomal protein; L18; Evolution; (*Trypanosoma brucei*) (Coulter, L.J. (1309) 69)

K*rev*-1
S29 ribosomal protein; Tumor suppressor (Kondoh, N. (1313) 41)

Ku antigen
Tick; ATP-dependent DNA helicase II; DNA helicase II; DNA repair; (Human) (Paesen, G.C. (1305) 120)

Kupffer cell
Liposome; Serum opsonin; Liposome clearance; Liver (Hu, Q. (1284) 153)

Calcium; Chondrosarcoma; Liposome; Opsonin; Reticuloendothelial system; Splenic macrophage; (Rat) (Moghimi, S.M. (1285) 56)

Kynurenic acid
Hydroxylation; 2-Oxo-1,2-dihydroquinoline; Quinaldic acid; Quinaldic acid 4-monooxygenase; (*Alcaligenes* sp. F-2) (Bubeck, B. (1293) 39)

L

L18
Kinetoplastida; Ribosome; Ribosomal protein; Evolution; (*Trypanosoma brucei*) (Coulter, L.J. (1309) 69)

L1210
Folylpolyglutamate synthetase; cDNA (murine) (Spinella, M.J. (1305) 11)

rpL9
Ribosomal protein; Gene structure (Mazuruk, K. (1305) 151)

Laccase
Redox potential; Kinetics; Stability; Bilirubin oxidase; Fungus (Xu, F. (1292) 303)

α-Lactalbumin
NMR, ^{1}H-; Stopped-flow analysis; Lanthanide series; Metal ion binding (Aramini, J.M. (1293) 72)

β-Lactam
Brush border membrane vesicle; Penicillin-G; Oral administration; pH gradient; (Antibiotic uptake) (Poschet, J.F. (1278) 233)

β-Lactamase
Equilibrium intermediate; Molten globule; Protein folding; (*E. coli*) (Sarkar, D. (1296) 85)

Lactase-phlorizin hydrolase
Furin; Proprotein convertase; (Intestine) (Wüthrich, M. (1311) 199)

Lactate
Platelet; Glucose; Glycogen; ATP (Niu, X. (1291) 97)

Lactate dehydrogenase
NAD^+ analogue; Photoaffinity labeling; Coenzyme binding (Becker, S. (1293) 277)

Alcohol dehydrogenase; Glutamate dehydrogenase; Malate dehydrogenase; Immobilized NAD^+ (O'Carra, P. (1297) 235)

Lactate dehydrogenase B catalysis
Lactate dehydrogenase B variant; Subunit structure; Enzyme activity variant (Shonnard, G.C. (1315) 9)

Lactate dehydrogenase B variant
Lactate dehydrogenase B catalysis; Subunit structure; Enzyme activity variant (Shonnard, G.C. (1315) 9)

Lactate/proton transport
pH; Symmetry; (Rat sarcolemmal giant vesicle) (Juel, C. (1283) 106)

Lactate transport
Monocarboxylate transporter; cDNA sequence; Glycosylation; Polymerase chain reaction; (Mouse Ehrlich cell) (Carpenter, L. (1279) 157)

Lactation
Glutamate transport; Mammary gland (Millar, I.D. (1282) 200)

Somatostatin receptor; Guanylate cyclase; Somatostatin-like immunoreactivity; Pancreatic acinar membrane; (Rat) (Rodríguez-Martín, E. (1316) 102)

Lactoferrin
Iron absorption; Transferrin; Nitric oxide (Sánchez, L. (1289) 291)

Lactogenic receptor
Nitration; Placental lactogen; Tyrosine residue; Somatogenic receptor; (Ovine) (Cymes, G.D. (1294) 31)

Lacto-*N*-triose II
β1-3*N*-Acetylglucosaminyltransferase; Rete testicular fluid; Epididymal fluid; NMR, ^{1}H-; (Rat) (Tsuji, Y. (1289) 115)

Lactoperoxidase
Peroxidase-oxidase; Oscillation; (Soybean); (*Coprinus*); (Horseradish) (Valeur, K.R. (1289) 377)

Lactose carrier
Cation cotransport; Salt bridge (Lee, J.-I. (1278) 111)

Lactose carrier protein
Transporter protein; Water-soluble solute; Energy coupling; Salt bridge; (*E. coli*) (Varela, M.F. (1276) 21)

Lactose permease
Lipid activation; Inhibitor, lipophilic; Boundary lipid; Cooperativity index; ATPase, Na^+,K^+- (Sandermann Jr., H. (1300) 219)

LacZ
Liposome; Reporter gene; Gene expression; β-Galactosidase; Ultrastructure; Cytofectin; Atomic force microscopy (Wheeler, C.J. (1280) 1)

***lacZ*-reporter**
Gene trap; ES cell; Expression pattern (Rijkers, T. (1307) 294)

Lag period
Lipoxygenase; Hydroperoxidase; Oxidation; Xenobiotic; Isoproterenol (Núñez-Delicado, E. (1293) 17)

Lamellar body
Surfactant protein A; Respiratory distress syndrome; (Lung) (Henry, M. (1300) 97)

Lamellar-hexagonal transition
Liposome; Temperature sensitivity; Dioleoylphosphatidylethanolamine; Poly(*N*-isopropylacrylamide); Lower critical solution temperature; Drug delivery system (Hayashi, H. (1280) 127)

Lamellar phase
Cholesterol; Phosphatidylethanolamine; Inverted hexagonal phase; DSC; X-ray diffraction (Takahashi, H. (1289) 209)

Laminin receptor
Ribosomal protein; Heat shock protein; (Chinese hamster) (Chen, M.-S. (1297) 124)

Laminin receptor precursor, 37 kDa
Processed pseudogene; Retroposon; p40 ribosome-associated protein; Ribosome-associated protein (Jackers, P. (1305) 98)

LAMMER kinase
Protein kinase; Clk3; Testis specific transcript (Becker, W. (1312) 63)

LA-N-1
Neuroblastoma; LA1-5S; LA1-55N; Subtractive cDNA library; LRR protein (Kim, D. (1309) 183)

LA1-55N
Neuroblastoma; LA-N-1; LA1-5S; Subtractive cDNA library; LRR protein (Kim, D. (1309) 183)

Langmuir adsorption isotherm
Cationic liposome; Bacterial biofilm; Thermodynamics; (*S. epidermidis*) (Sanderson, N.M. (1283) 207)

Langmuir monolayer
Dipyridamole; Drug localization; Surface pressure; Surface potential (Borissevitch, G.P. (1278) 12)

Lanthanide
Liposome; Streptavidin; Biotin; Europium-chelate; Time-resolved fluorometry; Detergent; Phospholipase A_2 (Orellana, A. (1284) 29)

Lanthanide series
NMR, ^{1}H-; α-Lactalbumin; Stopped-flow analysis; Metal ion binding (Aramini, J.M. (1293) 72)

Large unilamellar vesicle
Cisplatin; *cis*-Diamminedichloroplatinum(II); Phospholipid; Membrane (Speelmans, G. (1283) 60)

Hexadecylphosphocholine; Macrophage; Phagocytosis; Sterical stabilization; Liposome; Mononuclear phagocytic system; Zeta potential; Poly(ethylene glycol) (Zeisig, R. (1285) 237)

Larynx
Muscle protein; Myosin heavy chain gene; Myosin evolution; (Rat) (Merati, A.L. (1306) 153)

LA1-5S
Neuroblastoma; LA-N-1; LA1-55N; Subtractive cDNA library; LRR protein (Kim, D. (1309) 183)

Laser flash photolysis
Myofilament sliding; ATP hydrolysis; ATP, caged; Inorganic phosphate; ADP (Wada, H. (1274) 89)

Laser optical trap
Motility assay, in vitro; Myosin; Cardiac myosin (Sugiura, S. (1273) 73)

Latency loss
Lysosome; Photosensitization; H^+-ATPase; Potassium ion (Yao, J. (1284) 35)

Lateral mobility
Ethanol; Asymmetric fluidity; Rotational mobility; Native membrane; Model membrane; (Mouse); (Cell line Sp2/0-Ag14) (Kang, J.-S. (1281) 157)

Lateral pressure
Intrinsic curvature; Elastic energy; Inverted hexagonal (H_{II}) phase; Phosphatidylethanolamine (Marsh, D. (1279) 119)

Lattice melting
Lipid bilayer; Phospholipid; Submain phase transition; Theoretical model; Chain melting; Calorimetry (Nielsen, M. (1283) 170)

Laurdan
Generalized polarization; Polarization; Fluorescence; Lipid phase; Membrane; (Human spermatozoon) (Palleschi, S. (1279) 197)

Epstein–Barr virus; Membrane fluidity (Pozzi, D. (1280) 161)

Lauric acid conjugated thyrotropin-releasing hormone
Thyrotropin-releasing hormone; Intestinal absorption; Oligopeptide transporter; Carrier-mediated transport; Absorption enhancer (Tanaka, K. (1283) 119)

L-cell
Fatty acid binding protein; Oleic acid; *cis*-Parinaric acid; Fatty acid uptake and esterification; Fluorescence; (Liver) (Murphy, E.J. (1301) 191)

Sterol carrier protein-2; Transfection; Cholesterol uptake (Moncecchi, D. (1302) 110)

LDL
Isotorachrysone; Lipid peroxidation; Peroxyl radical; Superoxide anion; Hydroxyl radical; Free radical; Antioxidant (Hsiao, G. (1298) 119)

Lipoprotein lipase; VLDL; Chylomicron; Apolipoprotein E (Carrero, P. (1299) 198)

HDL; Phospholipase A_2; Spin label; Molecular packing; Conformational change (Gorshkova, I.N. (1300) 103)

Glycation; Phospholipase A_2; Cholesteryl ester hydroperoxide; Phosphatidylcholine; Hydroperoxide platelet activating factor acetylhydrolase (Sakurai, T. (1301) 85)

Lipoprotein oxidation; Atherosclerosis; Lipoperoxide (Greenspan, P. (1301) 242)

Polyunsaturated fatty acid; Desaturation; Cell differentiation; Premonocytic cell (U937, Mono Mac 6) (Hrboticky, N. (1302) 199)

Peroxidation; Atherosclerosis; Density gradient ultracentrifugation; Lipoprotein (a); (Human plasma) (Kleinveld, H.A. (1303) 15)

Atherosclerosis; Ebselen; Tocopheroxyl radical; EPR (Lass, A. (1303) 111)

DiI-LDL; DiI-acetyl-LDL; Fibroblast; Macrophage; Hypercholesterolemia, familial; Fluorescence; Cholesterol (Teupser, D. (1303) 193)

Photooxidation; Bilirubin (Hulea, S.A. (1304) 197)

Ascorbate; Ferritin; Lipoprotein oxidation; Atherosclerosis; (Iron) (Dai, L. (1304) 223)

Ceruloplasmin; Lipoprotein; Oxidation; Inflammation; (Rat) (DiSilvestro, R.A. (1317) 81)

LDL-cholesterol production
Cholesterol absorption; Cholesterol synthesis; LDL receptor activity; (Hamster) (Hoffmann, A. (1299) 95)

LDL metabolism
Verapamil; Nifedipine; Diltiazem; Ursodeoxycholic acid; Calcium antagonist; (Hamster hepatocyte) (Bouscarel, B. (1301) 230)

LDL receptor
Cholesterol; HMG-CoA reductase; Renal carcinoma; Transcript (Rudling, M. (1299) 75)

Dexamethasone; LDL receptor-related protein; Receptor associated protein; mRNA; α_2-Macroglobulin (Kancha, R.K. (1301) 213)

Acyl CoA:cholesterol acyltransferase inhibitor; VLDL; Cholesterol biosynthesis; (Liver) (Graham, A. (1302) 46)

LDL receptor activity
Cholesterol absorption; Cholesterol synthesis; LDL-cholesterol production; (Hamster) (Hoffmann, A. (1299) 95)

LDL receptor-related protein
Dexamethasone; Receptor associated protein; mRNA; α_2-Macroglobulin; LDL receptor (Kancha, R.K. (1301) 213)

LDLR mutation
Familial hypercholesterolemia; SSCP analysis; (Spain) (Cenarro, A. (1316) 1)

Leader sequence
Venom allergen; IgE-antibody; Allergy; (*M. pilosula*) (Street, M.D. (1305) 87)

Learning ability
$n-3$ Polyunsaturated fatty acid; Brain; Phospholipid; Water maze; (Rat) (Jensen, M.M. (1300) 203)

Lecithin-cholesterol acyltransferase
Steroid esterification; Hormone; Enzyme purification; Pregnenolone; Dehydroepiandrosterone (Lavallée, B. (1299) 306)

Phosphatidylcholine; Lysophosphatidylcholine; Lysolecithin acyltransferase; Lipid peroxidation (Subbaiah, P.V. (1301) 115)

HDL remodeling; Apolipoprotein structure; Apolipoprotein A-I; Cholesteryl ester transfer protein (Calabresi, L. (1304) 32)

Lectin
Differentiation; Phospholipid; Mucin; Glycosylation; Cytoprotection (Dohi, T. (1289) 71)

Hemoglobin; Linker; Giant hemoglobin; (*P. aibuhitensis*) (Matsubara, K. (1290) 215)

Amanitaceae; Mushroom; Fruiting body; (*Amanita pantherina*) (Zhuang, C. (1291) 40)

Lipoprotein; Agglutinin; Thomsen-Friedenreich; T antigen; Lipoprotein(a); (Peanut); (Human) (Lee, L.T. (1302) 79)

Galectin-1; Fusion protein; Cell growth control; Proteinase (Adams, L. (1312) 137)

Lectin binding property
Sialoglycoprotein; Ovarian cyst fluid; (Human) (Wu, A.M. (1316) 139)

Leigh syndrome
Mitochondrial myopathy; Cytochrome *c* oxidase deficiency; Monoclonal antibody; Immunoblotting (Possekel, S. (1316) 153)

Leiomyosarcoma cell
Tyrosine kinase; Genistein; Daidzein; Sodium ion current; Whole-cell voltage clamp; (Uterine smooth muscle) (Kusaka, M. (1278) 1)

Lens
Crystallin; Eye; Gene expression; Transgenic mouse (Sax, C.M. (1305) 49)

Ganglioside; Human senile cataract; Sialyl-Lewis^x (Ogiso, M. (1315) 29)

Lepidopteran larva
Cotransport; Transporter (Liu, Z. (1282) 25)

Lethal effect
Electrical breakdown; Cell electrodynamics; Cell membrane; Electroporation; Electric field (Kekez, M.M. (1278) 79)

Leucine zipper
Transcription; Expression; cDNA sequence; (Human) (Vogel, P. (1309) 200)

Leuco-dichlorofluorescein
Prostaglandin H synthase; Oxidation; Arachidonic acid; Cosubstrate (Larsen, L.N. (1299) 47)

Leukemia
1α,25-Dihydroxyvitamin D_3; Retinoic acid; HL60; Aldoketoreductase; Differentiation (Bunce, C.M. (1311) 189)

RNA coding; Cell adhesion regulator (Molla, A. (1315) 6)

Antioxidant; Antitumor drug; Apoptosis; (Human) (Kuo, M.-L. (1317) 95)

Leukocyte
Arachidonic acid metabolism; Polymorphonuclear leukocyte; Lipoxygenase; (Canine) (Rosolowsky, M. (1300) 143)

12-Hydroxyeicosatetraenoic acid; Leukotriene; Arachidonic acid; Albumin; Platelet (Dadaian, M. (1303) 154)

Tyrosine-phosphorylated protein; Phospholipase C; NADPH oxidase; Pervanadate; Translocation (Kawakami, N. (1314) 167)

Leukotriene
Icosanoid; HETE; Colon cancer; Cell proliferation; Cell cycle; Apoptosis (Bortuzzo, C. (1300) 240)

Prostaglandin D2; Mast cell; 5-Lipoxygenase; (Rat basophilic leukemia cell) (Westcott, J.Y. (1303) 74)

12-Hydroxyeicosatetraenoic acid; Arachidonic acid; Albumin; Leukocyte; Platelet (Dadaian, M. (1303) 154)

cDNA cloning; Gene structure; Chromosomal localization; Targeted gene disruption; Inflammation; Platelet; Macrophage; Epidermis (Funk, C.D. (1304) 65)

Leukotriene B_4
Cytosolic phospholipase A_2; Neutrophil; Platelet activating factor; (Human) (Bauldry, S.A. (1303) 63)

Arachidonic acid; 5-Hydroxyeicosatetraenoic acid; Aggregation; Polymorphonuclear leukocyte; Diabetes (Nakagawa, Y. (1315) 145)

Leydig cell
Potassium ion current; Patch clamp; pH; Hepes; Sodium ion (Desaphy, J.-F. (1285) 9)

Androgen release; Thyroid hormone; Protein induction; (Goat); (Testis) (Jana, N.R. (1292) 209)

Steroidogenesis; Cytochrome *P*-450; Porcine CYP17; Gene transcription; cyclic AMP; Nuclear protein (Zhang, P. (1307) 73)

LHC II
Photosystem II; Hydrogen bond; Cryoprotectant; Charge separation (Vasil'ev, S. (1276) 35)

Ligand binding
Glutathione *S*-transferase; Fluorescence; Tryptophan; Structure; (Rat) (McCarthy, R.M. (1293) 185)

Disulfide reduction; Epitope; Monoclonal antibody; Refolding; Riboflavin carrier protein (Velu, N.K. (1293) 231)

Deuteroheme isomer; Heme–globin contact; Magnetic resonance (Neya, S. (1296) 245)

eIF-(iso)4F; Conformational transition; pH dependence; Circular dichroism (Wang, Y. (1297) 207)

Ligand binding kinetics
Hydroperoxidase II; Heme d; Cyanide; Catalase; (*E. coli*); (Bovine liver) (Maj, M. (1298) 241)

Ligand binding region
Human serum albumin; Ligand binding site; Site I; Displacement (Yamasaki, K. (1295) 147)

Ligand binding site
Human serum albumin; Site I; Ligand binding region; Displacement (Yamasaki, K. (1295) 147)

Ligand–receptor interaction
Spermine; Binding site; Mitochondrion; (Liver) (Dalla Via, L. (1284) 247)

Light activation
Limited proteolysis; Chloroplast; NAD(P)-GAPDH; Aggregation; (*S. aureus* endoproteinase V8); (Spinach) (Scheibe, R. (1296) 228)

Light chain
Catalytic antibody; Autoantibody; Vasoactive intestinal polypeptide; Asthma; Phage display (Tyutyulkova, S. (1316) 217)

Light chain deposition disease; Amyloidosis; Unfolding (Bellotti, V. (1317) 161)

Light chain deposition disease
Light chain; Amyloidosis; Unfolding (Bellotti, V. (1317) 161)

Light harvesting
Peridinin; Peridinin-chlorophyll *a* protein; Amino acid sequence; Transit sequence; Dinophyceae; (*Amphidinium carterae*) (Sharples, F.P. (1276) 117)

Light harvesting chlorophyll *a* / *b* complex (LHCII)
Circular dichroism; Energy migration; Psi-type aggregate; Singlet-singlet annihilation; Ultrafast absorbance transient (Barzda, V. (1273) 231)

Light harvesting complex
Photosynthesis; Two-dimensional crystallization; Purple bacterium; Electron microscopy; (*Ectothiorhodospira sp.*); (*Rb. capsulatus*) (Oling, F. (1273) 44)

Excitation transfer; State transition; Quantum yield spectrum; Photoacoustics (Delosme, R. (1273) 150)

Photosynthetic Light harvesting system; Energy transfer dynamics; Purple bacterium; *Rhodopseudomonas acidophila* (Monshouwer, R. (1275) 70)

Photosynthesis; Purple bacterium; Analytical centrifugation; Electron microscopy; (*Rv. gelatinosus*) (Jirsakova, V. (1277) 150)

Light harvesting complex II
Polarized spectroscopy (Peterman, E.J.G. (1273) 171)

Light scattering
Elongation factor Tu; Polymerization; Phosphorescence; Microscopy (Helms, M.K. (1291) 122)

Light-triggerable liposome
Controlled release; Drug delivery; Electron microscopy; Interlipidic particle; Liposome; Photodynamic therapy; Photooxidation; Plasmalogen (Thompson, D.H. (1279) 25)

Lignin degradation
Manganese peroxidase; Isozyme; Hydrogen peroxide; Heme; (*D. squalens*) (Périé, F.H. (1297) 139)

Limb development
Zinc finger protein; Mouse mutation (Thien, H. (1307) 267)

Limited proteolysis
Chloroplast; NAD(P)-GAPDH; Light activation; Aggregation; (*S. aureus* endoproteinase V8); (Spinach) (Scheibe, R. (1296) 228)

Lindane
Lipid bilayer; Permeability; Phase transition; Fluorescence spectroscopy (Sabra, M.C. (1282) 85)

Lineage
Stem cell; Differentiation; Pluiripotency; Cell fate; Plasticity (Green, J. (1288) R9)

Linear DNA
Electroporation; Electrotransfection/electrotransformation; Molecular form (Kimoto, H. (1307) 325)

Linker
Hemoglobin; Lectin; Giant hemoglobin; (*P. aibuhitensis*) (Matsubara, K. (1290) 215)

Linker chain
Invertebrate hemoglobin; Hemoglobin; Amino-terminal amino acid sequence; Two-dimensional gel electrophoresis; (*L. terrestris*) (Fushitani, K. (1292) 273)

Linker region
β-Galactosidase; Galactose dehydrogenase; Bifunctional enzyme; Gene fusion; (*E. coli*) (Carlsson, H. (1293) 154)

Linoleic acid
Δ6-Desaturase; Fatty acid desaturation; Computer modeling; Enzyme kinetics; Acyl-CoA synthetase; Lysophospholipid acyltransferase (Ivanetich, K.M. (1292) 120)

Lipoxygenase; 12-Lipoxygenase; Suicide inactivation; Hydroperoxide; Arachidonic acid (Kishimoto, K. (1300) 56)

α-Linolenic acid
Dietary α-linolenic acid; Fatty acid oxidation; Lipogenesis; (Rat liver) (Kabir, Y. (1304) 105)

Lipase
2-Arylpropionic ester; Comparative molecular field analysis; Substrate specificity; (*C. rugosa*) (Botta, M. (1296) 121)

Expression cloning; Nucleotide sequence; Enzyme purification; Thermophilic; (*B. thermocatenulatus*) (Schmidt-Dannert, C. (1301) 105)

Food intake; High fat; Hybridization, in situ; Enterostatin; Procolipase; (Pancreas); (Rat stomach) (Sörhede, M. (1301) 207)

Hepatectomy; Activity; (Liver) (Sabugal, R. (1302) 193)

Lipase, microbial
Acylglycerol; Alkylglycerol; Stereoselective hydrolysis; Esterification; Isomerization (Kovac, A. (1301) 57)

Lipid
Membrane; Lipid conformation; FTIR; Mycoplasma (Moore, D.J. (1279) 49)

X-ray diffraction; Ion distribution; Gouy-Chapman theory; Membrane electrostatics (Kirchner, S. (1279) 181)

Cubic phase; Hemoglobin; Encapsulation; Drug delivery; Monoolein (Leslie, S.B. (1285) 246)

Oxylipin; Cytochrome *P*-450; Epoxide; Hydrolase (Moghaddam, M.F. (1290) 327)

Kinase C; Diacylglycerol; Arachidonic acid; Calcium; Vesicle (Schachter, J.B. (1291) 167)

Lipoprotein; Receptor; HepG2 cell; Selective uptake; Binding; Protein kinase C (Brissette, L. (1301) 133)

Green algae; Carotenoid; Signaling; Stress (Thompson Jr., G.A. (1302) 17)

Docosapentaenoic acid; Docosahexaenoic acid; Essential fatty acid deficiency; Phospholipid; Phospholipid molecular species; (Rat hepatocyte) (Retterstøl, K. (1303) 180)

Lipid activation
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Lipid A disaccharide synthase
Endotoxin; Glycerol-3-phosphate dehydrogenase; (*E. coli*) (Milla, M.E. (1304) 245)

Lipid analysis
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Phosphatidylcholine; X-ray scattering; Gel phase (Sun, W.-J. (1279) 17)

Fluorescence; *trans*-Parinaric acid (Castanho, M. (1279) 164)

Supported lipid bilayer; Impedance spectroscopy; Gramicidin D; Ion transport (Steinem, C. (1279) 169)

Lindane; Permeability; Phase transition; Fluorescence spectroscopy (Sabra, M.C. (1282) 85)

Voltage-dependent anion-selective channel; Mitochondrial porin; Pesticide; Diafenthiuron; DCCD; (*Protophormia*) (Wiesner, P. (1282) 216)

Phospholipid; Submain phase transition; Theoretical model; Chain melting; Lattice melting; Calorimetry (Nielsen, M. (1283) 170)

Lipid characterization
Homoserine, unsaturated; Diacylglycerol-*N,N,N*-trimethylhomoserine; Phosphatidylcholine; Cyclic variation; Electrospray mass spectrometry; (Marine alga) (Haigh, W.G. (1299) 183)

Lipid composition
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Cyanobacterium; Fatty acid desaturation; Mutation site; Protein composition (Gombos, Z. (1299) 117)

Lipid conformation
Membrane; FTIR; Lipid; Mycoplasma (Moore, D.J. (1279) 49)

Lipid depletion
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Lipid fluidity
EPR; Phase transition temperature; Drug penetration; Activation energy; (Rat stratum corneum) (Ogiso, T. (1301) 97)

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Lipid membrane
Gramicidin; Deformation free energy; Liquid crystal; Channel lifetime (Ring, A. (1278) 147)

β-Carotene; Zeaxanthin; Carotenoid; NMR, ^{1}H- (Gabrielska, J. (1285) 167)

Lipid metabolism
Ether lipid; Keratinocyte; Tissue culture (Oku, H. (1300) 35)

Fatty acid; Fibrate; Gene expression; Hypolipidemic drug; Nuclear hormone receptor; PPAR; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

Lipid monolayer
Proteasome, 20S; Electron microscopy (Newman, R.H. (1281) 111)

Lipid oxidation
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Lipid parameter
Phospholipid transfer protein; Cholesteryl ester transfer protein; Mass transfer rate; Activity; (Human) (Cheung, M.C. (1303) 103)

Lipid peroxidation
Caffeine; Free radical; Singlet oxygen; Antioxidant; (Rat liver microsome) (Devasagayam, T.P.A. (1282) 63)

Carvedilol; Drug–membrane interaction; Liposome binding; Fluorescence; Scanning calorimetry (Cheng, H.-Y. (1284) 20)

Glutathione *S*-transferase; 4-Hydroxynonenal; Microvessel endothelial cell; (Bovine) (He, N.-G. (1291) 182)

Isotorachrysone; Peroxyl radical; Superoxide anion; Hydroxyl radical; LDL; Free radical; Antioxidant (Hsiao, G. (1298) 119)

Lecithin-cholesterol acyltransferase; Phosphatidylcholine; Lysophosphatidylcholine; Lysolecithin acyltransferase (Subbaiah, P.V. (1301) 115)

Antioxidant; α-Tocopherol; Ascorbic acid; Carotenoid; (Chick embryo) (Surai, P.F. (1304) 1)

Iron chelation; Free-radical scavenger; Antioxidant; Polyphenol, green tea; EPR; Synaptosome; (Rat) (Guo, Q. (1304) 210)

Membrane transport; Transferrin-free iron; Rabbit reticulocyte; Iron concentration, incubation time; Piperazine ring-based buffer; Scavenger/producer (Qian, Z.M. (1310) 293)

Lipoprotein; Pyrene lipid; Atherosclerosis (Viani, P. (1315) 78)

Eye lens; Digital image analysis; Aqueous humor; Liposome; Cataract; Retinal disease (Babizhayev, M.A. (1315) 87)

Dehydroepiandrosterone; Hepatocarcinogen; Thiobarbituric acid reactive substance; Malondialdehyde; Microsome; (Rat liver) (Swierczynski, J. (1315) 193)

Lipid peroxide
Aminophospholipid·MDA; Cataract; Conjugated diene; Hydrogen peroxide; Malondialdehyde; Oxidative stress; (Lens cellular membrane) (Bhuyan, D.K. (1285) 21)

Antioxidant; Erythrocyte; β-Carotene; Phospholipid; (Mouse) (Nakagawa, K. (1299) 110)

Lipid phase
Laurdan; Generalized polarization; Polarization; Fluorescence; Membrane; (Human spermatozoon) (Palleschi, S. (1279) 197)

Lipid phase behaviour
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Lipid–protein interaction
Alamethicin; Cubic phase (Keller, S.L. (1278) 241)

Lipid-protein monolayer
Photosynthetic reaction center protein; Absorption spectrum; Optical and photoelectrical property (Kalabina, N.A. (1284) 138)

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Cholesteryl ester transfer protein; Apolipoprotein; Amphipathic helix; Cholesteryl sulfate; Recessive X-linked ichthyosis; Sperm acrosome; Lipopolysaccharide (Connolly, D.T. (1304) 145)

Lipid vesicle
Δ^9-Desaturase; Isothermal induction; Desaturase induction; Hepatocyte; (Carp liver) (Macartney, A.I. (1302) 207)

Lipofuscin-like pigment
Malondialdehyde; Autoxidation; Polyunsaturated fatty acid; Neurotransmitter (D'Ischia, M. (1290) 319)

Lipogenesis
Diet fat; mRNA; Obesity; (Mouse) (Cheema, S.K. (1299) 284)

Dietary α-linolenic acid; α-Linolenic acid; Fatty acid oxidation; (Rat liver) (Kabir, Y. (1304) 105)

Lipogenesis gene
Polyunsaturated fatty acid diet; Adipose tissue; Hypertriglyceridemia; Fish oil; (Rat liver) (Šeböková, E. (1303) 56)

Lipoic acid
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Lipolysis
Lipoprotein; Apolipoprotein E; Lipoprotein lipase; Transfer protein (Murdoch, S.J. (1303) 222)

Lipoperoxide
Lipoprotein oxidation; LDL; Atherosclerosis (Greenspan, P. (1301) 242)

Lipophilic cation
2-(4-Dimethylaminostyryl)-1-ethylpyridinium; DMP^+; Efflux system; Energization; Envelope; (*E. coli*) (Sedgwick, E.G. (1278) 205)

Lipophilic cation probe
Tetraphenylphosphonium ion; Membrane potential; (*E. faecalis*) (Hockings, P.D. (1282) 101)

Lipopolysaccharide
Phosphatidylserine; Tumor cytotoxicity; Cytotoxicity; Muramyl dipeptide; Liposome; Macrophage; (Liver) (Daemen, T. (1285) 219)

α-Tocopherol; Macrophage; Prostaglandin E_2; Cyclooxygenase-2; Vitamin E; (Rat peritoneal macrophage) (Sakamoto, W. (1304) 139)

Cholesteryl ester transfer protein; Lipid transfer protein; Apolipoprotein; Amphipathic helix; Cholesteryl sulfate; Recessive X-linked ichthyosis; Sperm acrosome (Connolly, D.T. (1304) 145)

Molecular cloning; Ferredoxin; Iron-sulfur; Initiation; (*Chromatium vinosum*) (Moulis, J.-M. (1308) 12)

Oxygen consumption; Interferon-γ; Mitochondrial dysfunction (Glover, R.E. (1310) 5)

Gelatinase B; Protein kinase C; *trans*-Retinoic acid (Houde, M. (1310) 193)

Nitric oxide; Arginine; Membrane transport; Macrophage (Shibazaki, T. (1311) 150)

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Apolipoprotein; Yolk sac; Fatty acid; (Rat fetus) (Plonné, D. (1299) 54)

Hepatocyte gene regulation; mRNA quantitation; Cholesterol; Apolipoprotein; Ester (Rea, T.J. (1299) 67)

Arteriosclerosis; Cholesterol; Cholesteryl ester; Reverse cholesterol transport; Peroxidation; α-Tocopherol (Stein, O. (1299) 216)

PAF; Acetylhydrolase; Pefabloc; Inflammatory mediator (Dentan, C. (1299) 353)

3-Thia fatty acid; Fatty acid oxidation; Fatty acid composition (Asiedu, D.K. (1300) 86)

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Apolipoprotein E; Lipolysis; Lipoprotein lipase; Transfer protein (Murdoch, S.J. (1303) 222)

Lipid peroxidation; Pyrene lipid; Atherosclerosis (Viani, P. (1315) 78)

Ceruloplasmin; LDL; Oxidation; Inflammation; (Rat) (DiSilvestro, R.A. (1317) 81)

Lipoprotein (a)
Lipoprotein; Agglutinin; Thomsen-Friedenreich; Lectin; T antigen; (Peanut); (Human) (Lee, L.T. (1302) 79)

Lipoprotein lipase
VLDL; LDL; Chylomicron; Apolipoprotein E (Carrero, P. (1299) 198)

Gene variant; Hyperlipidemia; Transfection (Zhang, H. (1302) 159)

Recombinant apolipoprotein C-II; Methionine aminopeptidase; Electrospray mass spectrometry (Wang, C.-S. (1302) 224)

Lipoprotein; Apolipoprotein E; Lipolysis; Transfer protein (Murdoch, S.J. (1303) 222)

Lipoprotein oxidation
HDL oxidation; Cholesterol efflux; Atherosclerosis (Rifici, V.A. (1299) 87)

LDL; Atherosclerosis; Lipoperoxide (Greenspan, P. (1301) 242)

Ascorbate; Ferritin; LDL; Atherosclerosis; (Iron) (Dai, L. (1304) 223)

Lipoprotein, very low density
Phosphatidylethanolamine methylation; Bezafibrate; 3-Deazaadenosine; (Rat hepatocyte) (Nishimaki-Mogami, T. (1304) 21)

Liposomal antigen
Antigen; Biodistribution; Encapsulation; Surface linkage (Thérien, H.-M. (1280) 91)

Liposome
Proton/hydride ratio; Nicotinamide nucleotide transhydrogenase; Hydride ion transfer; Chromatophore; Overexpression (Bizouarn, T. (1273) 4)

Reticuloendothelial system; Liposome clearance; Drug delivery; Liver perfusion (Liu, F. (1278) 5)

Endocytosis; Macrophage; Poly(ethylene glycol); Drug delivery system (Vertut-Doï, A. (1278) 19)

Distribution; Size; Membrane fluidity; Tumor; Bone marrow (Nagayasu, A. (1278) 29)

Cytochrome b_5; Cholesterol (Taylor, K.M.P. (1278) 35)

Asialofetuin; Amphiphilic compound; Receptor mediation; Gene transfer; Hepatocyte; (Rat) (Hara, T. (1278) 51)

Poly(acrylic acid); Endocytosis; Macrophage; Scavenger receptor (Fujiwara, M. (1278) 59)

Freeze-dry; Glucose; Maltodextrin; Saccharide; DSC; Lyophilization (Suzuki, T. (1278) 176)

Serum albumin; *cis*-Aconitic anhydride; HIV-1; SATA; (Human); (Antiviral) (Kamps, J.A.A.M. (1278) 183)

Controlled release; Drug delivery; Electron microscopy; Interlipidic particle; Light-triggerable liposome; Photodynamic therapy; Photooxidation; Plasmalogen (Thompson, D.H. (1279) 25)

Long-circulating liposome; Vincristine; Cancer therapy (Tokudome, Y. (1279) 70)

Immunoliposome; Long-circulating liposome; Antimyosin; Antibody; Myocardial infarction; Drug targeting (Torchilin, V.P. (1279) 75)

Collagen; Collagen-coated liposome; Stability; Half-life; Tissue distribution; Liposome–protein interaction (Fonseca, M.J. (1279) 259)

Reporter gene; Gene expression; LacZ; β-Galactosidase; Ultrastructure; Cytofectin; Atomic force microscopy (Wheeler, C.J. (1280) 1)

Alpha-toxin; Toxin; Phospholipase C; Phospholipid; Fluidity; (*C. perfringens*) (Nagahama, M. (1280) 120)

Temperature sensitivity; Dioleoylphosphatidylethanolamine; Poly(*N*-isopropylacrylamide); Lower critical solution temperature; Lamellar-hexagonal transition; Drug delivery system (Hayashi, H. (1280) 127)

Gamma irradiation; Chemical stability; Physical stability; DSC; Thin-layer chromatography/fast atom bombardment mass spectrometry; Degradation (Zuidam, N.J. (1280) 135)

Opsonization; Positron emission tomography (PET); Drug delivery system; Gene transfer (Oku, N. (1280) 149)

Blood protein; Protein; Reticuloendothelial system; Opsonin; Phagocytosis; Biodistribution (Oja, C.D. (1281) 31)

Phospholipid liposome–plasma membrane interaction; Plasma membrane; Pulmonary surfactant protein A; SP-A; (Alveolar type II cell) (Kuroki, Y. (1281) 53)

Cationic liposome; Oligonucleotide; Biodistribution; Antisense therapy (Litzinger, D.C. (1281) 139)

Neurotensin; Opioid receptor affinity; Multivalent ligand; Neurotensin-lipid conjugate; Fluorescence microscopy (Zhao, J. (1282) 249)

Perfluoroalkylated sugar; D-Glycose (alkyl phosphate); Glycophospholipid; Fluorinated surfactant; Drug delivery; Membrane permeability (Guillod, F. (1282) 283)

Ethyl alcohol; Interdigitation; Permeability; Sterilization (Komatsu, H. (1283) 73)

Phosphatidylethanol; NMR, ^{13}C-; Packing constraint; Electrostatic force; Anionic phospholipid; Chaotropic anion; Phospholipid hydration (Victorov, A.V. (1283) 151)

Archaebacterium; Membrane; Phytanyl group; FAB-MS; NMR, ^{1}H- (Yamauchi, K. (1283) 163)

Hexadecylphosphocholine; Macrophage; Poly(ethylene glycol); Mononuclear phagocytic system; LUVET; Stability (Zeisig, R. (1283) 177)

Brush border membrane; Ceftibuten transport; Oligopeptide; Solubilization; Reconstitution; Renal cortex (Naasani, I. (1283) 185)

Streptavidin; Biotin; Europium-chelate; Lanthanide; Time-resolved fluorometry; Detergent; Phospholipase A_2 (Orellana, A. (1284) 29)

Gene therapy; Gene delivery (Hagstrom, J.E. (1284) 47)

Serum opsonin; Kupffer cell; Liposome clearance; Liver (Hu, Q. (1284) 153)

FTIR; Galactolipid; Melittin; Peptide–lipid interaction (Hincha, D.K. (1284) 162)

Calcium; Chondrosarcoma; Kupffer cell; Opsonin; Reticuloendothelial system; Splenic macrophage; (Rat) (Moghimi, S.M. (1285) 56)

Perfluoroalkylated di-*O*-alkylglycerophosphocholine; Phospholipid; Fluorinated liposome; Vesicle; Membrane; Permeability (Ravily, V. (1285) 79)

Drug–lipid interaction; Isoflavonoid; Aggregation; Phosphatidylinositol (Lehtonen, J.Y.A. (1285) 91)

Complement; Hemoglobin; Natural anti-phospholipid antibody; Antibody (Szebeni, J. (1285) 127)

Fusion; Jurkat cell; Diphtheria toxin fragment A; Poly(ethylene oxide)-bearing lipid; Cytochalasin B (Higashi, N. (1285) 183)

Phosphatidylserine; Tumor cytotoxicity; Cytotoxicity; Muramyl dipeptide; Lipopolysaccharide; Macrophage; (Liver) (Daemen, T. (1285) 219)

Hexadecylphosphocholine; Macrophage; Phagocytosis; Sterical stabilization; Mononuclear phagocytic system; Zeta potential; Large unilamellar vesicle; Poly(ethylene glycol) (Zeisig, R. (1285) 237)

Cyclodextrin; Dehydroepiandrosterone; Retinol; Dexamethasone; Drug delivery (McCormack, B. (1291) 237)

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Counterion effect; Cationic lipid; Transfection; Gene transfer; DNA (Aberle, A.M. (1299) 281)

Adrenal steroidogenesis; Cytochrome *P*-450; Aldosterone synthesis; Cholesterol ; (Metabolism); (Bovine adrenal) (Kominami, S. (1301) 199)

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Phospholipase A_2; Arbutin; Dehydration; Anhydrobiosis; Free fatty acid (Oliver, A.E. (1302) 69)

Platelet–liposome protein transfer; Glycoprotein; Protein transfer; Serotonin analog; (Human platelet) (Dalençon, F. (1302) 241)

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Nanoparticle; Retrovirus budding; pH sensitivity (Ropert, C. (1310) 53)

Eye lens; Digital image analysis; Aqueous humor; Lipid peroxidation; Cataract; Retinal disease (Babizhayev, M.A. (1315) 87)

Liposome aggregation
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Liposome binding
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Liposome–cell fusion
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Liposome clearance
Liposome; Reticuloendothelial system; Drug delivery; Liver perfusion (Liu, F. (1278) 5)

Liposome; Serum opsonin; Kupffer cell; Liver (Hu, Q. (1284) 153)

Liposome–protein interaction
Liposome; Collagen; Collagen-coated liposome; Stability; Half-life; Tissue distribution (Fonseca, M.J. (1279) 259)

Liposome size
Polyethylene glycolated liposome; Vesicle; Permeability coefficient; Glucose leakage; Poly(ethylene glycol) (Nikolova, A.N. (1304) 120)

Lipoxygenase
Hydroperoxidase; Lag period; Oxidation; Xenobiotic; Isoproterenol (Núñez-Delicado, E. (1293) 17)

Arachidonic acid; Prostaglandin; Cytochrome *P*-450; Cyclooxygenase (Rosolowsky, M. (1299) 267)

12-Lipoxygenase; Suicide inactivation; Hydroperoxide; Arachidonic acid; Linoleic acid (Kishimoto, K. (1300) 56)

Arachidonic acid metabolism; Polymorphonuclear leukocyte; Leukocyte; (Canine) (Rosolowsky, M. (1300) 143)

5-Lipoxygenase
Leukotriene; Prostaglandin D2; Mast cell; (Rat basophilic leukemia cell) (Westcott, J.Y. (1303) 74)

12-Lipoxygenase
Lipoxygenase; Suicide inactivation; Hydroperoxide; Arachidonic acid; Linoleic acid (Kishimoto, K. (1300) 56)

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Liquid
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Liquid crystal
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Liver
Liposome; Serum opsonin; Kupffer cell; Liposome clearance (Hu, Q. (1284) 153)

Zinc; Metallothionein; α-Domain; β-Domain; (Rat) (Saito, S. (1289) 65)

Metallothionein; Copper; Luminescence; (LEC rat) (Nakayama, K. (1289) 150)

Ethanol; Lysosome; Proteinase; Hydrolase; Trafficking; Cathepsin L; Intracellular processing (Kharbanda, K.K. (1291) 45)

Stearoyl-CoA desaturase 1 gene; Gender difference; (Mouse) (Lee, K.N. (1304) 85)

Growth inhibitory factor; (Hamster) (Hashimoto, C. (1310) 309)

High-fat diet; Insulin; Pyruvate dehydrogenase complex; Starvation (Sugden, M.C. (1316) 114)

Liver collagen
Dimethylnitrosamine; Hepatic fibrosis; Fibrosis; Collagen; Fibril formation (George, J. (1292) 215)

Liver ischaemic atrophy
Apoptosis; Hydronephrosis; Tumor suppressor gene p53 (Cummings, M.C. (1315) 100)

Liver perfusion
Liposome; Reticuloendothelial system; Liposome clearance; Drug delivery (Liu, F. (1278) 5)

Liver plasma membrane
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Liver regeneration
Thymidine kinase; Gene expression; Immunoblotting; α-Adrenergic regulation; Partial hepatectomy; (Rat) (Tsukamoto, I. (1290) 267)

LLC-PK1 cell
Fluid-phase endocytosis; Endocytosis; Membrane physical state; Epithelium; MDCK cell (Mamdouh, Z. (1282) 171)

LMH cell
Heme oxygenase-1; Metabolic regulation; (Chick) (Gabis, K.K. (1290) 113)

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Local anesthetic
Thylakoid structure; Membrane fusion; Permeant amine; Dibucaine; Tetracaine (Semenova, G.A. (1285) 29)

Localization
Association; Focal adhesion kinase; Phosphoinositide 3-kinase; Glutathione *S*-transferase fusion protein (Bachelot, C. (1311) 45)

Long-circulating liposome
Liposome; Vincristine; Cancer therapy (Tokudome, Y. (1279) 70)

Liposome; Immunoliposome; Antimyosin; Antibody; Myocardial infarction; Drug targeting (Torchilin, V.P. (1279) 75)

Loop structure
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HMG-CoA reductase inhibitor; Simvastatin; Pravastatin; Sterol synthesis; Progesterone secretion (Van Vliet, A.K. (1301) 237)

Gene expression; Scavenger receptor; THP-1 cell; Macrophage; (Human) (Umetani, N. (1303) 199)

Lower critical solution temperature
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Low molecular weight GTP-binding protein
Signal transduction; Ras protein (Raffaniello, R.D. (1311) 111)

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CETP; Hepatic lipase; Remodeling, LpA-I (Ohta, T. (1303) 137)

LRR protein
Neuroblastoma; LA-N-1; LA1-5S; LA1-55N; Subtractive cDNA library (Kim, D. (1309) 183)

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Luciferase
Protein kinase; Bioluminescence; C-terminus engineering; Peptide; Proteinase (Waud, J.P. (1292) 89)

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Luciferase reporter gene
Promoter; Promoter probe plasmid; (*Clavibacter*) (Haapalainen, M. (1305) 130)

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Microinjection; Intercellular translocation; Multichannel microelectrode system (Saito, M. (1289) 1)

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Luminescence
Metallothionein; Copper; Liver; (LEC rat) (Nakayama, K. (1289) 150)

ATP regulation; Cell-free translation; Obelin mRNA (Matveev, S.V. (1293) 207)

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Hepatocyte nuclear factor-3 (HNF-3); cDNA sequence; mRNA expression; (Human) (Bingle, C.D. (1307) 17)

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Lung development
Type II cell; Surfactant (Kresch, M.J. (1299) 39)

Lung disease
Epithelial cell; Stem cell factor (Wen, L.-P. (1314) 183)

Lung surfactant
Lipoprotein; Neutrophil elastase (Liau, D.F. (1302) 117)

Lutropin
Gonadotropin-releasing hormone; Testosterone; Anterior pituitary cell; (Rat) (Starzec, A.B. (1310) 348)

LUVET
Hexadecylphosphocholine; Macrophage; Poly(ethylene glycol); Liposome; Mononuclear phagocytic system; Stability (Zeisig, R. (1283) 177)

Permeability; Activation energy; Doxorubicin; Phospholipid; Diffusion (Speelmans, G. (1284) 240)

LY83583
Methylene blue; Guanylyl cyclase inhibitor; Patch clamp; Potassium ion channel, Ca^{2+}-activated (BK_{Ca}) (Stockand, J.D. (1285) 123)

Lyme disease
Antibody; Plasmid; Spirochete; (*B. burgdorferi*) (Feng, S. (1307) 270)

Lymph node
Liposome; Morphological observation; Immunogold electron microscopy (Velinova, M. (1299) 207)

Lymphocyte
Ceruloplasmin; Gene expression; Immune cell; Copper (Pan, Y. (1307) 233)

Alzheimer's amyloid; Cell surface marker; Activation (Bullido, M.J. (1313) 54)

Regulation; Telomerase (Yamada, O. (1314) 260)

Bilirubin; Cytotoxicity; Major histocompatibility complex; (Human) (Haga, Y. (1316) 29)

Lymphocyte activation
Cell cycle; Differential display; Gene expression; Redox control; Oxidative signaling; Reactive oxygen species (Goldstone, S.D. (1314) 175)

Lymphotoxin
Antisense oligonucleotide; Cytokine; Tumor necrosis factor; Cell-free extract (Lefebvre d'Hellencourt, C. (1317) 168)

Lyophilization
Liposome; Freeze-dry; Glucose; Maltodextrin; Saccharide; DSC (Suzuki, T. (1278) 176)

Lysine analogue
Collagen conformation; *S*-2-Aminoethylcysteine; Procollagen; Collagen synthesis; Collagen production inhibition (Christner, P. (1294) 37)

Lysine : K^+ symport
Cotransport; Arginine; Tobacco hornworm (Liu, Z. (1282) 32)

Lysine-rich domain
rap gene; *ras*-related gene; GTP-binding protein; Geranylgeranylation; (*P. polycephalum*) (Kozlowski, P. (1305) 29)

Lysolecithin acyltransferase
Lecithin-cholesterol acyltransferase; Phosphatidylcholine; Lysophosphatidylcholine; Lipid peroxidation (Subbaiah, P.V. (1301) 115)

Lysophosphatidylcholine
Lecithin-cholesterol acyltransferase; Phosphatidylcholine; Lysolecithin acyltransferase; Lipid peroxidation (Subbaiah, P.V. (1301) 115)

Phospholipase A; Calcium ion release; Membrane permeability; Mitochondrion; (Rat liver) (Rustenbeck, I. (1304) 129)

Lysophosphatidylcholine:acyl-CoA acyltransferase
Acyl-CoA specificity; Solubilization; Reconstitution; Topological localization; (Pig spleen) (Kerkhoff, C. (1302) 249)

Lysophosphatidylglycerol
Phosphatidylglycerol; Acyltransferase; Arrhythmia; (Heart) (Cheng, P. (1302) 61)

Lysophospholipase
Phospholipase A_1; Phospholipase A_2; Phosphatidylcholine metabolism; Arachidonic acid (Pete, M.J. (1299) 325)

Lysophospholipase L_2
Nucleotide sequence; Protein expression; Virulence factor; (*V. cholerae*) (Whayeb, S.A. (1300) 1)

Lysophospholipid
CoA-independent transacylase; Arachidonic acid; Neutrophil; Platelet activating factor (Nixon, A.B. (1300) 187)

Lysophospholipid acyltransferase
Δ6-Desaturase; Fatty acid desaturation; Linoleic acid; Computer modeling; Enzyme kinetics; Acyl-CoA synthetase (Ivanetich, K.M. (1292) 120)

Lysosomal enzyme
Free fatty acid; Human neutrophil; Degranulation; Superoxide generation; Myeloperoxidase (Ishida-Okawara, A. (1314) 239)

Sandhoff disease; β-Hexosaminidase; G_{M2} ganglioside (Redonnet-Vernhet, I. (1317) 127)

Lysosomal storage disease
Enzyme replacement therapy; Recombinant enzyme (Bijvoet, A.G.A. (1308) 93)

Batten disease; Ceroid-lipofuscinosis; Carnitine; Trimethyllysine; Protein modification; Metabolic defect; Hereditary disease (Katz, M.L. (1317) 192)

Lysosome
Latency loss; Photosensitization; H^+-ATPase; Potassium ion (Yao, J. (1284) 35)

Glutamate; Chloroquine; NH_4^+; Cell volume; Cytosolic pH (Busch, G.L. (1285) 212)

Liver; Ethanol; Proteinase; Hydrolase; Trafficking; Cathepsin L; Intracellular processing (Kharbanda, K.K. (1291) 45)

Lysozyme
Chitin; Chitosan; Chitosanase; NMR; Sequence specificity; (*Bacillus* sp.) (Vårum, K.M. (1291) 5)

LysR family
Denitrification; Cytochrome *c* oxidase; *S*-adenosyl-L-methionine-dependent uroporphyrinogen-III C-methyltransferase; Cytochrome cd_1; Short-chain alcohol dehydrogenase (Glockner, A.B. (1277) 6)

M

α_2-Macroglobulin
Pregnancy zone protein; Oligosaccharide chain; Disulfide bond; Receptor-binding fragment; Monoclonal antibody 7H11D6; (Human) (Jensen, P.E.H. (1293) 254)

Proteinase inhibitor; Signal transduction; α_2-Macroglobulin receptor; Macrophage; Receptor-binding fragment (Howard, G.C. (1297) 111)

Dexamethasone; LDL receptor-related protein; Receptor associated protein; mRNA; LDL receptor (Kancha, R.K. (1301) 213)

α_2-Macroglobulin receptor
α_2-Macroglobulin; Proteinase inhibitor; Signal transduction; Macrophage; Receptor-binding fragment (Howard, G.C. (1297) 111)

Macromolecular interaction
Retinoid; Retinol-binding protein; Transthyretin; Fluorescence anisotropy (Malpeli, G. (1294) 48)

Macrophage
Liposome; Endocytosis; Poly(ethylene glycol); Drug delivery system (Vertut-Doï, A. (1278) 19)

Liposome; Poly(acrylic acid); Endocytosis; Scavenger receptor (Fujiwara, M. (1278) 59)

ATP; Purinergic receptor; Single channel; Phagocytic cell; (Thymic reticulum) (Coutinho-Silva, R. (1278) 125)

Oligonucleotide; Uptake; Endocytosis; Mannose receptor; Endosome (Liang, W.W. (1279) 227)

Hexadecylphosphocholine; Poly(ethylene glycol); Liposome; Mononuclear phagocytic system; LUVET; Stability (Zeisig, R. (1283) 177)

Phosphatidylserine; Tumor cytotoxicity; Cytotoxicity; Muramyl dipeptide; Lipopolysaccharide; Liposome; (Liver) (Daemen, T. (1285) 219)

Hexadecylphosphocholine; Phagocytosis; Sterical stabilization; Liposome; Mononuclear phagocytic system; Zeta potential; Large unilamellar vesicle; Poly(ethylene glycol) (Zeisig, R. (1285) 237)

Acetylcholinesterase; Respiratory burst; Mannose receptor; Carbohydrate binding; Non-cholinergic action (Klegeris, A. (1289) 159)

Nitric oxide; Spin trapping; EPR; Dithiocarbamate; (Mouse) (Kotake, Y. (1289) 362)

α_2-Macroglobulin; Proteinase inhibitor; Signal transduction; α_2-Macroglobulin receptor; Receptor-binding fragment (Howard, G.C. (1297) 111)

HDL; Cholesterol efflux; Reverse cholesterol transport; Reconstituted HDL (Bernini, F. (1299) 103)

Monocyte; Hyperlipidemia; Atherosclerosis; Scavenger receptor (García Villanova, J. (1300) 135)

LDL; DiI-LDL; DiI-acetyl-LDL; Fibroblast; Hypercholesterolemia, familial; Fluorescence; Cholesterol (Teupser, D. (1303) 193)

Lovastatin; Gene expression; Scavenger receptor; THP-1 cell; (Human) (Umetani, N. (1303) 199)

cDNA cloning; Gene structure; Chromosomal localization; Targeted gene disruption; Leukotriene; Inflammation; Platelet; Epidermis (Funk, C.D. (1304) 65)

α-Tocopherol; Prostaglandin E_2; Cyclooxygenase-2; Lipopolysaccharide; Vitamin E; (Rat peritoneal macrophage) (Sakamoto, W. (1304) 139)

Nitric oxide; Arginine; Membrane transport; Lipopolysaccharide (Shibazaki, T. (1311) 150)

HIV-1; Cationic liposome; Cytotoxicity; (Human) (Konopka, K. (1312) 186)

S100 protein; Inflammation; Chemotaxis; Endothelial cell; Cytokine (Geczy, C. (1313) 246)

Drug targeting; Fluorothymidine; Azidothymidine; HIV; Receptor; Scavenger (Mankertz, J. (1317) 233)

Macrophage colony stimulating factor
Platelet activating factor; Granulocyte-macrophage colony stimulating factor; Acetylhydrolase (Dupuis, F. (1311) 27)

MADH electron-transport chain
Copper protein, type 1; Amicyanin; Cytochrome c_{550}; Inter-protein cross-reaction; Metalloprotein (redox) kinetics; (*T. versutus*) (Kyritsis, P. (1295) 245)

Magnesium
ATP; Diffusion; NMR; pH; Temperature (Hubley, M.J. (1291) 115)

Calcium ion concentration, cytosolic-free; Vascular smooth muscle (Yoshimura, M. (1312) 151)

Magnesium binding
Parvalbumin; Oncomodulin; EF hand; Calcium-binding protein; Calcium homeostasis; Calcium signaling (Pauls, T.L. (1306) 39)

Magnesium, free
Adenosine; ATP phosphorylation potential; AMP; 5′-Nucleotidase; Myocardium; (Guinea pig); (Heart) (Mallet, R.T. (1290) 165)

Magnesium ion activation
ATPase, H^+-; pH; Plasma membrane; Corn root; (*Zea mays* L.) (Costa, M.S. (1279) 214)

Magnesium ion complex
Beticolin; ATPase, H^+-; Pyrophosphatase, H^+-; Inhibition (Gomès, E. (1285) 38)

Magnetic axes
NMR; Dimeric hemoglobin; Heme cavity; Hyperfine shift; (*Scapharca inaequivalvis*) (Wu, Y. (1298) 261)

Magnetic circular dichroism
Cytochrome bc_1; Cytochrome c_1; EPR; Mitochondrion; Photosynthetic bacterium (Finnegan, M.G. (1274) 9)

Heme-copper oxidase; *Qox* operon; Circular dichroism; Lipoprotein; (*Thermus thermophilus*) (Zickermann, I. (1277) 93)

Magnetic circular dichroism spectroscopy
Distal water/hydroxide; Extended X-ray absorption fine structure spectroscopy; Heme protein; Oxygenase; Proximal histidine (Hawkins, B.K. (1295) 165)

Magnetic resonance
Deuteroheme isomer; Heme–globin contact; Ligand binding (Neya, S. (1296) 245)

Major histocompatibility complex
Bilirubin; Cytotoxicity; Lymphocyte; (Human) (Haga, Y. (1316) 29)

T lymphocyte; Bilirubin; Cytotoxicity (Haga, Y. (1317) 65)

Major histocompatibility complex class II
Rheumatoid arthritis; Autoimmunity; Peptide; Peptide motif; T cell epitope prediction; HLA-DR (Friede, T. (1316) 85)

Major intrinsic protein
Intercellular junction; Junctional lipid; Boundary lipid; Cholesterol; Ethanolamine glycerophospholipid; Sphingomyelin; (Bovine ocular lens) (Baumann, C.G. (1303) 145)

***MAL4*^{C}**
Trehalose; UDPG-pyrophosphorylase; Gal3; Catabolite repression (Dutra, M.B. (1289) 261)

Malaria
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Malarial pigment
NADPH oxidase; Monocyte; Malaria; Hemozoin; Phagocytosis; (Human) (Schwarzer, E. (1316) 169)

Malate dehydrogenase
Lactate dehydrogenase; Alcohol dehydrogenase; Glutamate dehydrogenase; Immobilized NAD^+ (O'Carra, P. (1297) 235)

Aspirin; Chaperone; α-Crystallin; Glycation (Heath, M.M. (1315) 176)

MALDI-TOF MS
Secalin; Coeliac disease; Immunoblotting; Rye (Rocher, A. (1295) 13)

Malignant hyperthermia
Ryanodine receptor; Sarcoplasmic reticulum; Calcium channel; Caffeine; Skeletal muscle (Herrmann-Frank, A. (1289) 31)

Malignant mesothelioma
Platelet-derived growth factor α-receptor; Platelet-derived growth factor β-receptor; Mesothelial cell line; (Human) (Langerak, A.W. (1305) 63)

Platelet-derived growth factor B chain; Cell line; Transcription regulation; Promoter (Prins, J.-B. (1317) 223)

Malonate inhibition
D-Aspartate oxidase; D-Aspartate induction; Flavoprotein; Yeast (Yamada, R.-h. (1294) 153)

Malondialdehyde
Aminophospholipid·MDA; Cataract; Conjugated diene; Hydrogen peroxide; Lipid peroxide; Oxidative stress; (Lens cellular membrane) (Bhuyan, D.K. (1285) 21)

Autoxidation; Polyunsaturated fatty acid; Neurotransmitter; Lipofuscin-like pigment (D'Ischia, M. (1290) 319)

Dehydroepiandrosterone; Hepatocarcinogen; Lipid peroxidation; Thiobarbituric acid reactive substance; Microsome; (Rat liver) (Swierczynski, J. (1315) 193)

Malonyl-CoA
Carnitine palmitoyl transferase; Mitochondrion; Carnitine acyltransferase; (Rat heart) (Bieber, L.L. (1290) 261)

Acetyl-CoA carboxylase; Fatty acid oxidation (Kudo, N. (1301) 67)

Maltase
Brush border membrane; Glucoamylase; α-Glucosidase; Isomaltase; Sucrase; (Intestine); (*R. japonica*) (Takesue, Y. (1296) 152)

Maltodextrin
Liposome; Freeze-dry; Glucose; Saccharide; DSC; Lyophilization (Suzuki, T. (1278) 176)

Intact chloroplast; Maltose; Uptake; Kinetics; (Spinach) (Rost, S. (1291) 221)

Maltooligosyltrehalose
Trehalose; Gene cloning; Nucleotide sequence; Operon; (*Arthrobacter*) (Maruta, K. (1289) 10)

Trehalose; Gene cloning; Nucleotide sequence; (*Sulfolobus*) (Maruta, K. (1291) 177)

Maltose
Trehalose; Trehalose synthase; Gene cloning; Nucleotide sequence; (*Pimelobacter*) (Tsusaki, K. (1290) 1)

Intact chloroplast; Maltodextrin; Uptake; Kinetics; (Spinach) (Rost, S. (1291) 221)

Mammalian bone metabolism
Stanniocalcin; N-terminal fragment; Parathyroid hormone (Yoshiko, Y. (1311) 143)

Mammalian tissue
Cholesterol ester; Hydrolysis (Hui, D.Y. (1303) 1)

Mammary carcinoma
Cell proliferation; Arachidonic acid metabolism; Ind methacin (Tripathi, S.C. (1316) 5)

Mammary gland
Glutamate transport; Lactation (Millar, I.D. (1282) 200)

Manganese
Sarcoplasmic reticulum; ATPase, Ca^{2+}- (González, D.A. (1276) 188)

3,4-Dihydroxyphenylacetic acid; 3,4-Dihydroxybenzyl alcohol; 3,4-Dihydroxybenzaldehyde; Oxidative decarboxylation; Copper (Mefford, I.N. (1290) 224)

Manganese-cluster
Calcium ion-depleted photosystem II; Multiline signal; S_3 signal; Electron spin echo; Electron-electron double resonance (Hara, H. (1276) 140)

Manganese(II)
Parkinson's disease; Dopamine; 6-Hydroxydopamine; Iron(III); Iron(II); Fenton's reagent; Nicotine (Linert, W. (1316) 160)

Manganese peroxidase
Lignin degradation; Isozyme; Hydrogen peroxide; Heme; (*D. squalens*) (Périé, F.H. (1297) 139)

Manganese-reconstituted myoglobin
Myoglobin; Reaction kinetics; Reaction thermodynamics; Hydrogen peroxide; (Horse heart) (Mondal, M.S. (1296) 174)

Manganese-stabilizing protein
Secondary structure; Thermostability; Circular dichroism; Fourier-transform infrared spectroscopy (Sonoyama, M. (1297) 167)

Mannose
1,5-Anhydroglucitol; Fructose; Sugar transport; Renal tubule (Yamanouchi, T. (1291) 89)

D-Mannose
B cell glucokinase; D-Glucose; D-Fructose phosphorylation (Sener, A. (1312) 73)

β-1,6-Mannose branch
Dol-PP-oligosaccharide; *alg3*; Exoglucanase; (*S. cerevisiae*) (Cueva, R. (1289) 336)

Mannose 6-phosphate receptor
Insulin-like growth factor; Insulin-like growth factor receptor; Caco-2 cell (Dahms, N.M. (1279) 84)

Mannose receptor
Oligonucleotide; Macrophage; Uptake; Endocytosis; Endosome (Liang, W.W. (1279) 227)

Acetylcholinesterase; Macrophage; Respiratory burst; Carbohydrate binding; Non-cholinergic action (Klegeris, A. (1289) 159)

β-Mannosidase
Purification; Urine; Kidney; (Human) (Guadalupi, R. (1293) 9)

Marine bacterium
Potassium uptake; Potassium-translocating gene; DNA sequence; (*V. alginolyticus*) (Nakamura, T. (1277) 201)

Sodium ion/glucose symporter; Glucose transport; Sequence analysis; (*V. parahaemolyticus*) (Sarker, R.I. (1281) 1)

Marker enzyme
Golgi; G1cNAc transferase; Nucleotidyldiphosphatase; Membrane protein; (*D. discoideum*) (Capasso, J.M. (1281) 15)

Mass spectrometry
Urine; Urocanic acid; *N*-Acetyl-L-cysteine; Histidine; NMR spectrometry; (Human); (Rat) (Kinuta, M. (1291) 131)

α-Amylase; Digestive enzyme; (Pancreas); (Rat) (Young, M.K. (1293) 63)

Plasminogen activator inhibitor; Plasminogen activator; Proteinase domain; Size-exclusion chromatography; Serpin (Strömqvist, M. (1295) 103)

Phosphoglycerate mutase; Site-directed mutagenesis; Phosphorylated enzyme; Circular dichroism; (*S. pombe*); (*S. cerevisiae*) (Nairn, J. (1296) 69)

Chymotrypsin; Cold adaptation; Isozyme; N-terminal amino-acid sequence analysis; Serine proteinase; (*G. morhua*) (Leth-Larsen, R. (1297) 49)

Cholesterol oxidation; Oxygen isotope; Soybean lipoxygenase; Copper oxidation (Breuer, O. (1302) 145)

Glycolipid; Glucuronopyranosyldiacylglycerol taurineamide; Taurine; Fatty-acyl distribution; (*H. jannaschiana*) (Batrakov, S.G. (1302) 167)

Glycolipid; Glucosyldiacylglycerol; Glucuronosyldiacylglycerol; Glucuronic acid acylated; (*H. jannaschiana*) (Batrakov, S.G. (1303) 39)

Amebocyte; Eicosanoid; High pressure liquid chromatography; Electrospray; Hydroxyeicosatetraenoic acid; (*L. polyphemus*) (MacPherson, J.C. (1303) 127)

Bile acid; Chenodeoxycholic acid; Cholestyramine; Hepatic uptake (Einarsson, K. (1317) 19)

Mass transfer rate
Phospholipid transfer protein; Cholesteryl ester transfer protein; Activity; Lipid parameter; (Human) (Cheung, M.C. (1303) 103)

Mast cell
Leukotriene; Prostaglandin D2; 5-Lipoxygenase; (Rat basophilic leukemia cell) (Westcott, J.Y. (1303) 74)

Mast cell growth factor
cDNA cloning; Steel factor; (Avian); (Chicken); (Quail) (Petitte, J.N. (1307) 149)

Mastoparan
Astrocyte; Phospholipase C; Phospholipase A_2; G protein; Prostaglandin E_2 (Nakahata, N. (1310) 60)

Mastoparan-B
NMR, ^{1}H-; Circular dichroism; Simulated annealing; (*V. basalis*) (Chuang, C.-C. (1292) 1)

Mathematical modeling
Signal transduction; Membrane receptor; Agonist; Antagonist; Calcium mobilization (Stickle, D. (1310) 242)

Mating response pathway
Pheromone response; Signal transduction; Mitogen activated protein kinase (Covic, L. (1305) 125)

Matrix metalloproteinase
TIMP; Collagenase; Arthritis; T cell (Cawston, T.E. (1314) 226)

Matrix vesicle
Chondrocyte; Estrogen; Fluidity; Arachidonic acid turnover; Membrane; Estradiol 17β (Schwartz, Z. (1282) 1)

Matrix volume
Oxidative phosphorylation efficiency; Mitochondrion; External osmolarity; Adenine nucleotide carrier; Swelling; (Rat liver) (Devin, A. (1273) 13)

Maturation
cDNA cloning; *S*-Adenosylmethionine decarboxylase; Polyamine; Oogenesis; Embryogenesis; Northern blot analysis; (*Xenopus*) (Shinga, J. (1308) 31)

MCM family
CDC47; Cloning; cDNA; (Human) (Kiyono, T. (1307) 31)

MDCK
Glutathione *S*-transferase; Nephrotoxicity; (Dog kidney); (In vitro) (Bohets, H.H. (1311) 93)

MDCK cell
Fluid-phase endocytosis; Endocytosis; Membrane physical state; Epithelium; LLC-PK1 cell (Mamdouh, Z. (1282) 171)

Meat curing
NO myoglobin; NADH oxidase activity; Superoxide; NO formation (Nakamura, M. (1289) 329)

Medium conductivity
Asymmetric uptake; Breakdown voltage; Electropermeabilization; Membrane resealing; Propidium iodide (Djuzenova, C.S. (1284) 143)

Megakaryocyte
Prostanoid receptor; Cross-talk; Protein kinase C; Calcium ion, intracellular; cyclic AMP (Watanabe, T. (1304) 161)

Mel-18
cDNA cloning; Genomic structure; Alternative splicing; Overlapping gene (Tetsu, O. (1305) 109)

Melanocortin 1-receptor
Genomic DNA sequencing; (Chicken) (Takeuchi, S. (1306) 122)

Extended black locus; Pigmentation; (Chicken) (Takeuchi, S. (1308) 164)

Melanocyte
5-*S*-cysteinyldopa; Pheomelanin; Hydroxylation (Napolitano, A. (1291) 75)

Melanocyte stimulating hormone
RT-PCR; Radioimmunoassay; Adrenocorticotropin; Ultraviolet B (Chakraborty, A.K. (1313) 130)

Melatonin
Calmodulin; Calcium ion/calmodulin-dependent kinase II; Autophosphorylation; Calmodulin antagonist; (Mechanism of action); (Rat brain) (Benítez-King, G. (1290) 191)

Melibiose carrier
Cation cotransport; Mutagenesis; (*E. coli*) (Franco, P.J. (1282) 240)

Melittin
FTIR; Galactolipid; Liposome; Peptide–lipid interaction (Hincha, D.K. (1284) 162)

Heme pocket; Calmodulin; Geminate kinetics (Leclerc-L'Hostis, E. (1293) 140)

Membrane
H^+-transporting ATP synthase; ATP hydrolysis; Binding change mechanism; Subunit rotation; Physiological relevance (Zhou, Y. (1275) 96)

Potential sensitivity; RH dye; Boundary potential; Adsorption; ATPase, Na^+/K^+- (Malkov, D.Yu. (1278) 197)

Lipid conformation; FTIR; Lipid; Mycoplasma (Moore, D.J. (1279) 49)

Laurdan; Generalized polarization; Polarization; Fluorescence; Lipid phase; (Human spermatozoon) (Palleschi, S. (1279) 197)

Chondrocyte; Estrogen; Fluidity; Arachidonic acid turnover; Matrix vesicle; Estradiol 17β (Schwartz, Z. (1282) 1)

Cisplatin; *cis*-Diamminedichloroplatinum(II); Phospholipid; Large unilamellar vesicle (Speelmans, G. (1283) 60)

Archaebacterium; Liposome; Phytanyl group; FAB-MS; NMR, ^1H- (Yamauchi, K. (1283) 163)

Perfluoroalkylated di-*O*-alkylglycerophosphocholine; Phospholipid; Fluorinated liposome; Liposome; Vesicle; Permeability (Ravily, V. (1285) 79)

Phase transition; Phospholipid; Polymorphism; Scanning densitometry; DSC (Koynova, R. (1285) 101)

Phase transition; Phospholipid; Polymorphism; Time-resolved X-ray diffraction; Differential scanning calorimetry; Scanning densitometry (Tenchov, B. (1285) 109)

2,4-Dichlorophenoxyacetic acid; Agent orange; Phospholipid bilayer (Suwalsky, M. (1285) 267)

Peroxynitrite; Erythrocyte; Glutathione; Thiol group; ATPase; Free radical (Soszyński, M. (1291) 107)

Isoprenylation; Methylation; Signal transduction; G protein (Rando, R.R. (1300) 5)

Membrane anchor
Acetylcholinesterase; Glycosyl phosphatidylinositol; Signal peptide; (*T. californica*) (Bucht, G. (1292) 223)

Membrane-associated *c*-type cytochrome
Photosynthetic bacterium; Trans expression; Electron transfer; Cytochrome *c* (Jenney Jr., F.E. (1273) 159)

Membrane binding
Annexin I; Neutrophil organelle (Sjölin, C. (1281) 227)

Phospholipase B; Mycobacterium (Maeda, S. (1303) 31)

Annexin VI; Calcium; Conformational change; Crystallography; Molecular replacement; (Bovine liver) (Kawasaki, H. (1313) 277)

Membrane biophysics
Phospholipid bilayer; Membrane structure; Phase transition; FTIR (Chia, N.-C. (1283) 141)

Membrane capacitance
Electrorotation; Cell electrodynamics; Induced electric dipole; Cell membrane (Mahaworasilpa, T.L. (1281) 5)

Dielectrophoresis; Electrorotation; Cell dielectric property; Membrane conductance (Huang, Y. (1282) 76)

Membrane conductance
Dielectrophoresis; Electrorotation; Cell dielectric property; Membrane capacitance (Huang, Y. (1282) 76)

Membrane conductivity
Electrorotation; Biocide; Yeast; Toxicity (Zhou, X.-F. (1281) 60)

Membrane curvature
Surface potential; Membrane hydration; Hydrodynamic shear boundary; Monovalent cation association; Fluorescence probe (Kraayenhof, R. (1282) 293)

Membrane disruption
Glycoalkaloid; Erythrocyte; Caco-2; Mitochondrion; Cholesterol; Permeabilization (Keukens, E.A.J. (1279) 243)

Cholesterol; Triterpenoid saponin; Structure–activity relationship; (*Aralia*) (Hu, M. (1299) 252)

Membrane electrostatics
X-ray diffraction; Ion distribution; Lipid; Gouy-Chapman theory (Kirchner, S. (1279) 181)

Membrane fluidity
Liposome; Distribution; Size; Tumor; Bone marrow (Nagayasu, A. (1278) 29)

Epstein–Barr virus; Laurdan (Pozzi, D. (1280) 161)

Model membrane; Odorant; β-Ionone; Menthone; FTIR; NMR, ^{2}H- (Bouchard, M. (1282) 233)

Renal secretion; Organic cation; Tetraethylammonium; Cholesterol; Brush border membrane (Nabekura, T. (1283) 232)

Sterol biomethylation; Kinetics; (*S. cerevisiae*) (Venkatramesh, M. (1299) 313)

Glycogen storage disease; Erythrocyte membrane; EPR; Fatty acid (Keddad, K. (1315) 61)

Membrane fraction
Fatty acid hydroxylation; Oleoyl-CoA; Oleaginous fungi; Fatty acid desaturation; (*Mortierella ramanniana*) (Certik, M. (1304) 56)

Membrane fragment
Voltage-sensitive styryl dye; Styryl dye; Rubisco; ATPase, Na^+/K^+-; Fluorescence; Association constant (Frank, J. (1280) 51)

Membrane fusion
Surfactant; Surfactant apoprotein; Kinetics; Tubular myelin; Myelin (Poulain, F.R. (1278) 169)

Amphiphilic peptide; α-Helix; Membrane perturbation; Peptide-lipid conjugate (Zhao, J. (1283) 37)

Thylakoid structure; Local anesthetic; Permeant amine; Dibucaine; Tetracaine (Semenova, G.A. (1285) 29)

Membrane hydration
Surface potential; Hydrodynamic shear boundary; Membrane curvature; Monovalent cation association; Fluorescence probe (Kraayenhof, R. (1282) 293)

Membrane lipid composition
Apoptosis; Saturated fatty acid containing phospholipid (Singh, J.K. (1304) 171)

Membrane lysis
Drug targeting; Complement (Muzykantov, V.R. (1279) 137)

Membrane organization
Ethylazinphos; Cholesterol; Fluorescent probe; Partition coefficient (Videira, R.A. (1281) 65)

Membrane permeability
Perfluoroalkylated sugar; D-Glycose (alkyl phosphate); Glycophospholipid; Fluorinated surfactant; Liposome; Drug delivery (Guillod, F. (1282) 283)

Potassium ion; Calcium ion; Glucose-induced oscillation; Plasma membrane; (Pancreatic β-cell) (Eberhardson, M. (1283) 67)

Phospholipase A; Calcium ion release; Lysophosphatidylcholine; Mitochondrion; (Rat liver) (Rustenbeck, I. (1304) 129)

Membrane perturbation
Membrane fusion; Amphiphilic peptide; α-Helix; Peptide-lipid conjugate (Zhao, J. (1283) 37)

Membrane phospholipid turnover
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Membrane physical state
Fluid-phase endocytosis; Endocytosis; Epithelium; MDCK cell; LLC-PK1 cell (Mamdouh, Z. (1282) 171)

Membrane pore
Sodium urate crystal; Urate monohydrate crystal, monosodium; Hemolysis; Erythrocyte (Jackson, J.K. (1281) 45)

Membrane potential
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Photosensitization; Singlet oxygen; Free radical; Plasma membrane; Photodynamic therapy; Proline transport; Lipid oxidation (Kochevar, I.E. (1280) 223)

Lipophilic cation probe; Tetraphenylphosphonium ion; (*E. faecalis*) (Hockings, P.D. (1282) 101)

Carotenoid; Halobacterium; Ion pump; (Archaebacterium) (Ichi Seki, S. (1284) 79)

Inositol trisphosphate; Calcium; Beta cell; Acetylcholine (Gromada, J. (1310) 145)

Membrane protein
Transhydrogenase; NAD; NADP; Proton pump (Meuller, J. (1273) 191)

Photosynthesis; Photosystem II; Chloroplast; Site-directed mutagenesis; Bicarbonate; Formate; (*Chlamydomonas reinhardtii*) (Hutchison, R.S. (1277) 83)

Band 3; Reconstitution; Triton X-100; Anion transport (Boulter, J.M. (1280) 265)

Golgi; Marker enzyme; G1cNAc transferase; Nucleotidyldiphosphatase; (*D. discoideum*) (Capasso, J.M. (1281) 15)

Detergent binding model; Detergent-protein complex; Glucose transporter; Glucose transport activity; Phospholipid; (Human red cell) (Haneskog, L. (1282) 39)

Membrane protein thermostability
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Membrane receptor
Signal transduction; Mathematical modeling; Agonist; Antagonist; Calcium mobilization (Stickle, D. (1310) 242)

Membrane resealing
Asymmetric uptake; Breakdown voltage; Electropermeabilization; Medium conductivity; Propidium iodide (Djuzenova, C.S. (1284) 143)

Membrane skeleton
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Membrane structure
Phospholipid bilayer; Membrane biophysics; Phase transition; FTIR (Chia, N.-C. (1283) 141)

Membrane surface polarity
Membrane/water interface; Intrinsic monolayer curvature; Bilayer-hexagonal transition (Epand, R.F. (1284) 191)

Membrane transport
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Bacterial toxin; Hemolysin; Erythrocyte; Neuraminidase; (*V. parahaemolyticus*) (Huntley, J.S. (1281) 220)

Ion transport; Phospholipid vesicle; Proton uncoupler; Valinomycin (Prabhananda, B.S. (1282) 193)

Lipid peroxidation; Transferrin-free iron; Rabbit reticulocyte; Iron concentration, incubation time; Piperazine ring-based buffer; Scavenger/producer (Qian, Z.M. (1310) 293)

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Membrane transporter
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Membrane transport protein
Proton-coupled transport; Oligopeptide transport; Intestinal absorption; Transporter; *Xenopus* oocyte (Mackenzie, B. (1284) 125)

Membrane vesicle
Cationic lipid; Headgroup-chain linkage; Cholesterol; Fluorescence anisotropy; Phase transition (Bhattacharya, S. (1283) 21)

Occlusion; n-Octyl glucoside; Bumetanide; Cytochalasin B; $Na^+/K^+/2Cl^-$ cotransport (Krarup, T. (1284) 97)

Membrane/water interface
Membrane surface polarity; Intrinsic monolayer curvature; Bilayer-hexagonal transition (Epand, R.F. (1284) 191)

Menthone
Model membrane; Membrane fluidity; Odorant; β-Ionone; FTIR; NMR, ^{2}H- (Bouchard, M. (1282) 233)

β-Mercaptoethanol
Cisplatin; 3,3′-Diaminobenzidine tetrahydrochloride; Dithiothreitol (Chao, J.C. (1307) 213)

6-Mercaptopurine riboside
Nucleoside transport; Sodium ion dependence; Brush border membrane; Small intestine; (Rat) (Iseki, K. (1278) 105)

Merocyanine 540
Protoporphyrin; Erythrocyte deformability; Osmotic hemolysis; Hemolysis (Lagerberg, J.W.M. (1278) 247)

Mesangial cell
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Tumor necrosis factor-α; M-CSF; Monocyte; Protein kinase; Signal transduction (Kamanna, V.S. (1313) 161)

Mesothelial cell line
Platelet-derived growth factor α-receptor; Platelet-derived growth factor β-receptor; Malignant mesothelioma; (Human) (Langerak, A.W. (1305) 63)

Metabolic control
Proton leak; Perfused muscle (Rolfe, D.F.S. (1276) 45)

Metabolic defect
Batten disease; Ceroid-lipofuscinosis; Lysosomal storage disease; Carnitine; Trimethyllysine; Protein modification; Hereditary disease (Katz, M.L. (1317) 192)

Metabolic regulation
Creatine kinase; Oxidative phosphorylation; Muscle contraction; Skeletal muscle; (Heart) (Saks, V.A. (1274) 81)

Heme oxygenase-1; LMH cell; (Chick) (Gabis, K.K. (1290) 113)

Metabolism
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Guanidino propionic acid; Creatine; Mitochondrial inclusion body; Creatine kinase; Adenine nucleotide translocator; Oxidative phosphorylation; (Rat) (O'Gorman, E. (1276) 161)

Hepatectomy; DNA synthesis; Taurocholate; Thymidine kinase; Thymine (Villanueva, G.R. (1289) 136)

Bile acid; Bile salt; Biosynthesis; Cholesterol; Cell culture; Hepatocyte; Hydroxycholesterol (Sauter, G. (1300) 25)

Retinoic acid; Retinoid; Keratinocyte; Albumin; Retinoic acid uptake (Hodam, J.R. (1311) 102)

Metabolite transport
Carnitine carrier; Citrate carrier; Mitochondrial carrier; Ornithine carrier; Oxoglutarate carrier; Phosphate carrier (Palmieri, F. (1275) 127)

Metal ion binding
NMR, ^{1}H-; α-Lactalbumin; Stopped-flow analysis; Lanthanide series (Aramini, J.M. (1293) 72)

Metalloenzyme
D-Amino acid-peptide hydrolase; Substrate spectrum; Kinetic study; Cilastatin sensitive; (Porcine kidney) (Watanabe, T. (1298) 109)

Metalloproteinase
Proteinase ECP 32; Purification; Characterization; Ion-exchange chromatography; Gel filtration (size exclusion); (*E. coli*) (Matveyev, V.V. (1296) 55)

Phosphocitrate; Calcium crystal; AP-1; Inhibition (Cheung, H.S. (1315) 105)

Fibronectin; Fibronectin fragment; Cytokine; Cartilage (Bewsey, K.E. (1317) 55)

Metalloprotein (redox) kinetics
Copper protein, type 1; Amicyanin; Cytochrome c_{550}; Inter-protein cross-reaction; MADH electron-transport chain; (*T. versutus*) (Kyritsis, P. (1295) 245)

Metallothionein
Zinc; Liver; α-Domain; β-Domain; (Rat) (Saito, S. (1289) 65)

Copper; Luminescence; Liver; (LEC rat) (Nakayama, K. (1289) 150)

Metarhodopsin
Rod outer segment disk; Rhodopsin; Cholesterol; Thermal stability; DSC (Albert, A.D. (1297) 77)

Metastatic potential
Drug resistance counteraction; Cell membrane fluidity (Leibovici, J. (1281) 182)

Methanesulfonate
Transient outward current; Chloride current; Aspartate; Caffeine; Chloride ion substitute; (Rat ventricular myocytes) (Lefevre, T. (1273) 31)

Methemoglobin
Hemoglobin; Extracellular hemoglobin; Oligomeric structure; Hemichrome; Alkaline dissociation; (*G. paulistus*); (Annelid) (Agustinho, S.C.M. (1298) 148)

Methionine aminopeptidase
Recombinant apolipoprotein C-II; Lipoprotein lipase; Electrospray mass spectrometry (Wang, C.-S. (1302) 224)

Methoxamine
Diacylglycerol; Cystic fibrosis; Signal transduction (Kester, M. (1302) 264)

Methyl arachidonyl fluorophosphonate
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Methylation
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Methylene blue
Guanylyl cyclase inhibitor; LY83583; Patch clamp; Potassium ion channel, Ca^{2+}-activated (BK_{Ca}) (Stockand, J.D. (1285) 123)

Peroxidase-oxidase reaction; Oscillation; Peroxidase; Dichlorophenol (Kummer, U. (1289) 397)

2-Methylene-4-butyrolactone
NADPH-quinone reductase; Induction; Two-electron reduction; Drug activity modulator; (*E. coli*) (Hayashi, M. (1273) 165)

Methylenetetrahydrofolate
Phosphate activation; NAD; NADP; Bifunctionality; (*P. phosphoreum*) (Pawelek, P.D. (1296) 47)

Methylotrophic yeast
Secretion; Gene expression (Sakai, Y. (1308) 81)

Micellization
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Microbial lipase
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Microcalorimetry
Phosphorylase b; Binding; AMP; (Liver) (García-Fuentes, L. (1294) 83)

Microclimate pH
Aging; pH; Sodium ion/proton antiporter; Unstirred water layer; Water layer, unstirred; (Rat jejunum) (Ikuma, M. (1280) 19)

Microdomain
Monensin; Cholesterol; Time-resolved polarization; Polarization (Bransburg-Zabary, S. (1285) 146)

Microfluidization
Liposome; Tetanus toxoid; Immunoglobulin G; Covalent coupling; Freeze-fracture electron microscopy (Skalko, N. (1301) 249)

α_1-Microglobulin
cDNA; Bikunin; Amino acid sequence; Sequence comparison (Lindqvist, A. (1306) 98)

Microinjection
Lucifer yellow; Intercellular translocation; Multichannel microelectrode system (Saito, M. (1289) 1)

Microscopy
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Microsomal enzyme
Fatty acid ethyl ester; Ethanol metabolite; Acyl-CoA hydrolase; Human liver; Acyl-CoA:ethanol acyltransferase (Treloar, T. (1299) 160)

Microsome
Nitroprusside; Superoxide anion radical; Hydroxyl radical; Spin trap; Redox cycling; Iron chelate (Rao, D.N.R. (1289) 195)

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Retinol; Colchicine; Transthyretin; (Rat); (Golgi) (Ritter, S.J. (1290) 157)

Warfarin; Progesterone; Reductase, NADPH-coupled; Serum protein; Xenobiotic; (Rat liver) (Apanovitch, D. (1291) 16)

Glucose-6-phosphatase; *N*-Bromoacetylethanolamine phosphate; Inorganic pyrophosphatase; PP_i:glucose phosphotransferase; (Rat liver) (Foster, J.D. (1297) 244)

Desaturase; Polyunsaturated fatty acid; Propyl gallate; (*Mortierella*); (Liver) (Kawashima, H. (1299) 34)

Desaturation; Elongation; Docosahexaenoic acid; Hepatocyte; Trout (Buzzi, M. (1299) 235)

Dehydroepiandrosterone; Hepatocarcinogen; Lipid peroxidation; Thiobarbituric acid reactive substance; Malondialdehyde; (Rat liver) (Swierczynski, J. (1315) 193)

Microsphere
Actin filament; Endocytosis; Occluding junction (Cremaschi, D. (1283) 101)

Microtubular network
Postischemic liver dysfunction; Indocyanine green; Near-infrared spectroscopy; Prostaglandin E_1 (Shinohara, H. (1317) 27)

Microtubule
ATP; GTP; Binding site; Distance mapping; Tubulin; NMR (Rai, S.S. (1292) 77)

Microvessel endothelial cell
Glutathione *S*-transferase; 4-Hydroxynonenal; Lipid peroxidation; (Bovine) (He, N.-G. (1291) 182)

Milk fat globule
Butyrophilin; Immunoglobulin superfamily; cDNA sequence; (Human) (Taylor, M.R. (1306) 1)

Milk fat globule membrane protein
PAS-4; Glycosylation; cDNA (Berglund, L. (1309) 63)

Mineral binding
Osteonectin; Mineralization (Fujisawa, R. (1292) 53)

Mineralization
Carbonic anhydrase; Carbonate; Crystal nucleation; Isoenzyme; Crystallinity; Enamel development (Kakei, M. (1289) 226)

Mineral binding; Osteonectin (Fujisawa, R. (1292) 53)

Calcium-binding protein; Calcium metabolism; Crustacea; Organic matrix; (*O. cavimana*) (Luquet, G. (1293) 272)

Miscibility
Air/water interface; Cholesterol; Fluorescence microscopy; Liquid; Phospholipid; Ternary mixture (Hagen, J.P. (1280) 169)

Missense mutation
Erythropoietic protoporphyria; Ferrochelatase; Splicing mutation (Wang, X. (1316) 149)

Mitochondrial DNA
In situ hybridization; Digoxigenin; Common deletion (Nakamura, N. (1308) 215)

Carcinoma; Oncocytoma; Gene expression; Oxidative phosphorylation (Heddi, A. (1316) 203)

Mitochondion–chloroplast interaction
Mitochondrion; Chloroplast; Redox balance; ATP production; Biosynthesis (Gardeström, P. (1275) 38)

Mitochondrial carrier
Carnitine carrier; Citrate carrier; Metabolite transport; Ornithine carrier; Oxoglutarate carrier; Phosphate carrier (Palmieri, F. (1275) 127)

AAC2; ADP/ATP carrier; Second-site revertant (Nelson, D.R. (1275) 133)

Mitochondrial channel
Mitochondrion; Aging; Degenerative disease; Mitochondrial DNA; Permeability transition pore; Oxidative stress (Zorov, D.B. (1275) 10)

Mitochondrial cytochrome bc_1 complex
Electron transport; Protein crystallization; Co-crystallization of cytochrome bc_1–cytochrome *c* complex; Inhibitor complex (Yu, C.-A. (1275) 47)

Mitochondrial disease
Ubiquinol cytochrome *c* reductase; Cytochrome *b*; Human pathology; Antimycin A; Myxothiazol (Bouzidi, M.F. (1317) 199)

Mitochondrial DNA
Mitochondrion; Aging; Degenerative disease; Permeability transition pore; Mitochondrial channel; Oxidative stress (Zorov, D.B. (1275) 10)

Mitochondrial dysfunction
Lipopolysaccharide; Oxygen consumption; Interferon-γ (Glover, R.E. (1310) 5)

Mitochondrial import
Processing; Inhibiting import; (*Glycine max* L.) (Whelan, J. (1312) 48)

Mitochondrial inclusion body
Guanidino propionic acid; Creatine; Creatine kinase; Adenine nucleotide translocator; Metabolism; Oxidative phosphorylation; (Rat) (O'Gorman, E. (1276) 161)

Mitochondrial metabolism
Oxaloacetate; Phospho*enol*pyruvate carboxylase; Protoplast; (*H. vulgare* L.) (Krömer, S. (1289) 351)

Mitochondrial myopathy
Mitochondrial protein; Nuclear gene; Electron transfer chain; Bioenergetics (Makris, G.J. (1308) 197)

Leigh syndrome; Cytochrome *c* oxidase deficiency; Monoclonal antibody; Immunoblotting (Possekel, S. (1316) 153)

Mitochondrial porin
Voltage-dependent anion-selective channel; Pesticide; Diafenthiuron; DCCD; Lipid bilayer; (*Protophormia*) (Wiesner, P. (1282) 216)

Mitochondrial potential
Rhodamine 123; Biguanide; Phenylephrine; Calcium ion oscillation (Ubl, J.J. (1276) 124)

Mitochondrial protein
Nuclear gene; Electron transfer chain; Mitochondrial myopathy; Bioenergetics (Makris, G.J. (1308) 197)

Cytochrome *c* oxidase; Immunohistochemistry; Monoclonal antibody; Chronic progressive external ophthalmoplegia; (Human) (Taanman, J.-W. (1315) 199)

Mitochondrial redox state
Pancreatic islet; Dehydrogenase; Glucose; Metabolism (Ramirez, R. (1273) 263)

Mitochondrial respiration
Aging; Respiratory chain; Ubiquinol cytochrome *c* reductase; Cytochrome *c* oxidase; Cytochrome (Boffoli, D. (1315) 66)

Mitochondrial respiratory chain
NADH-ubiquinone oxidoreductase; Rotenone; Structure–activity relationship (Ueno, H. (1276) 195)

Mitochondrial solute carrier
Nematode; Transport protein; (*Onchocerca* sp.); (*C. elegans*) (Catmull, J. (1282) 179)

Mitochondrion
Oxidative phosphorylation efficiency; External osmolarity; Matrix volume; Adenine nucleotide carrier; Swelling; (Rat liver) (Devin, A. (1273) 13)

Cytochrome *c* oxidase; (*Polytomella*); (*Chlamydomonas*); (Chlorophiceae) (Antaramian, A. (1273) 198)

Bioenergetics; Respiration rate; Hepatocyte; Perifusion; (Permeabilized cell) (Boschmann, M. (1273) 223)

Cytochrome bc_1; Cytochrome c_1; EPR; Magnetic circular dichroism; Photosynthetic bacterium (Finnegan, M.G. (1274) 9)

n-Hexane; 1-Hexanethiol; 1-Hexanol; (Rat liver) (Canton, M. (1274) 39)

Glyoxysome; Isoenzyme; Chaperone; Folding; (*Citrullus vulgaris*) (Gietl, C. (1274) 48)

Creatine kinase; NMR, P-31; Saturation transfer; Enzyme kinetics; Energy metabolism (Van Dorsten, F.A. (1274) 59)

Creatine kinase; Creatine analogue; Creatine-stimulated respiration; Nuclear magnetic resonance; Porcine carotid artery (Boehm, E.A. (1274) 119)

Aging; Degenerative disease; Mitochondrial DNA; Permeability transition pore; Mitochondrial channel; Oxidative stress (Zorov, D.B. (1275) 10)

Mitochondion–chloroplast interaction; Chloroplast; Redox balance; ATP production; Biosynthesis (Gardeström, P. (1275) 38)

Potassium transport; Potassium/proton antiporter; Potassium ion channel opener; Sulfonylurea receptor; Potassium ion channel (Garlid, K.D. (1275) 123)

Oxidative phosphorylation; Aging; Development; (Human) (Papa, S. (1276) 87)

NAD(P)H dehydrogenase; Respiratory chain; Rotenone-insensitive; (*Solanum tuberosum*) (Melo, A.M.P. (1276) 133)

Polyunsaturated fatty acid deficiency; Oxidative phosphorylation; (Rat) (Fontaine, E.M. (1276) 181)

Glycoalkaloid; Erythrocyte; Caco-2; Cholesterol; Permeabilization; Membrane disruption (Keukens, E.A.J. (1279) 243)

ATP:AMP phosphotransferase; Protein *N*-acetylation; N-terminal processing; Two-dimensional gel electrophoresis; Cotranslational import; (*S. cerevisiae*) (Klier, H. (1280) 251)

Tricarboxylate carrier; Citrate carrier; cDNA; Sequence (Iacobazzi, V. (1284) 9)

Spermine; Binding site; Ligand–receptor interaction; (Liver) (Dalla Via, L. (1284) 247)

Malonyl-CoA; Carnitine palmitoyl transferase; Carnitine acyltransferase; (Rat heart) (Bieber, L.L. (1290) 261)

Oxoglutarate carrier; Cross-linking reagent; Disulfide bridge; Dimeric structure (Bisaccia, F. (1292) 281)

Chaperone; p53 protein; Heat shock protein; Binding; (Human); (Mouse) (Merrick, B.A. (1297) 57)

Phospholipase A; Calcium ion release; Lysophosphatidylcholine; Membrane permeability; (Rat liver) (Rustenbeck, I. (1304) 129)

Trypanosome; Kinetoplast; RNA editing; Guide RNA (Arts, G.J. (1307) 39)

RNA editing; Chimeric gene; Point mutation; (Sugarbeet) (Kubo, T. (1307) 259)

Protein synthesis; Ribosome; mRNA; Initiation (Farwell, M.A. (1309) 122)

Photosensitizer; Porphyrin; Cell killing; Oxidative stress; Human cultured cell (Munday, A.D. (1311) 1)

Calcium efflux; Spermatozoon (Breitbart, H. (1312) 79)

Kearns-Sayre syndrome; Polymerase chain reaction; Zidovudine; 3′-Azido-2′,3′-dideoxythymidine (Wang, H. (1316) 51)

Creatine kinase; Citrate synthase; Muscle; Ragged red fiber; Human pathology (Bouzidi, M.F. (1316) 61)

Calcium; Alzheimer's disease; Fibroblast; Bradykinin (Gibson, G.E. (1316) 71)

Mitochondrion channel
Cyclosporin cell death (Bernardi, P. (1275) 5)

Mitogen-activated protein kinase
Pheromone response; Signal transduction; Mating response pathway (Covic, L. (1305) 125)

Genomic DNA sequence; (*Cyprinus carpio*) (Leu, J.-H. (1306) 133)

cyclic AMP; Protein synthesis; L6 myoblast; Insulin (Thompson, M.G. (1311) 37)

Mitogenesis
N-Glycosylation; Secretion; Pulse-chase analysis; Platelet-derived growth factor; Receptor binding (Kaetzel, Jr., D.M. (1298) 250)

Mitogenic signaling
Transforming growth factor α; Prostaglandin; Keratinocyte (Hanke, B. (1310) 137)

Mixed-disulfide formation
Oxidative stress; Glutathione; Ocular lens; NMR, ^{13}C- (Willis, J.A. (1313) 20)

Mixed interdigitated bilayer
Binary lipid mixture; Differential scanning calorimetry; Phase diagram; Phase transition temperature (Lin, H.-n. (1283) 199)

Mixed pyrrole
Porphobilinogen synthase; Porphobilinogen; (*Rhodobacter spheroides*) (Lüönd, R.M. (1289) 83)

Mn complex
Electron paramagnetic resonance; Oxygen evolution; Radical–metal interaction (Boussac, A. (1277) 253)

Model membrane
Ethanol; Asymmetric fluidity; Lateral mobility; Rotational mobility; Native membrane; (Mouse); (Cell line Sp2/0-Ag14) (Kang, J.-S. (1281) 157)

Membrane fluidity; Odorant; β-Ionone; Menthone; FTIR; NMR, ^{2}H- (Bouchard, M. (1282) 233)

Model peptide
Sodium ion channel; Conformation; Circular dichroism (Helluin, O. (1279) 1)

Modulator interaction
P-glycoprotein; Cooperativity; Interaction, competitive; Interaction, noncompetitive; Multidrug resistance (Ayesh, S. (1316) 8)

Molecular chaperone
Heat shock protein; Recognition; Degradation pathway; Protein–peptide interaction (Gorinsky, B. (1293) 243)

Molecular cloning
Neuropeptide Y; Y2-type receptor; (Mouse) (Nakamura, M. (1284) 134)

cDNA; Human umbilical endothelial cell (Yoshimoto, M. (1293) 83)

cDNA; Nucleotide sequence; SOX; (*Xenopus laevis*) (Komatsu, N. (1305) 117)

Alcohol dehydrogenase; Parasite target; (*E. histolytica*) (Rodríguez, M.A. (1306) 23)

Ferredoxin; Iron-sulfur; Lipopolysaccharide; Initiation; (*Chromatium vinosum*) (Moulis, J.-M. (1308) 12)

Intranuclear matrix protein; cDNA; Sequence analysis (Menz, K. (1309) 14)

Cell adhesion; Immunoglobulin superfamily; Epithelial polarity; Cytokine (Schuster, V.L. (1311) 13)

Molecular complexation
Inositol phosphate; Spermine; Spermidine (Mernissi-Arifi, K. (1289) 404)

Molecular dynamics and mechanics
Poly(ethylene glycol)-bound NAD^+; Alcohol dehydrogenase; Kinetic modelling; Reductive amination, stereospecific; (Horse liver) (Vanhommerig, S.A.M. (1295) 125)

Molecular dynamics simulation
Waglerin; Nuclear magnetic resonance; Protein solution structure; Snake venom; (*T. wagleri*) (Chuang, L.-C. (1292) 145)

Molecular form
Electroporation; Electrotransfection/electrotransformation; Linear DNA (Kimoto, H. (1307) 325)

Molecular modeling
Inhibitor; Differentiation protein; Helix-loop-helix; Transcription factor; Dimerization (Wibley, J. (1294) 138)

Neopullulanase; Structure–function relationship; Substrate binding; Active site; (*B. stearothermophilus*); (*A. oryzae*) (Lamminmäki, U. (1295) 195)

Molecular packing
LDL; HDL; Phospholipase A_2; Spin label; Conformational change (Gorshkova, I.N. (1300) 103)

Molecular phylogenetics
Sulfotransferase; Multigene family (Rikke, B.A. (1307) 331)

Molecular property
Cytochrome c_3; Biological activity; Perm selective membrane electrode; Redox potential; (*D. africanus*) (Pieulle, L. (1273) 51)

Molecular recognition
mRNA cap-analogue; Oligopeptide; NMR; Stacking interaction; Tryptophan-containing peptide (Stolarski, R. (1293) 97)

Acetylcholinesterase; Anionic site; Electrostatic interaction; Salt effect; Catalytic mechanism; Allosteric modulation (Tõugu, V. (1298) 12)

Molecular replacement
Annexin VI; Membrane binding; Calcium; Conformational change; Crystallography; (Bovine liver) (Kawasaki, H. (1313) 277)

Molecular sequence data
Troponin I; Muscle protein; Evolution; Vertebrate; (*Clupea harengus*); (Fish) (Hodgson, P.A. (1306) 142)

Molecular species
Diacylglycerol; Ceramide; Ras; Fibroblast; Phospholipid (Laurenz, J.C. (1299) 146)

Molecular weight
Ovoinhibitor; Domain I; Trypsin inhibitor; Association constant; Amino acid composition; (Chicken) (Galzie, Z. (1293) 113)

Molten globule
β-Lactamase; Equilibrium intermediate; Protein folding; (*E. coli*) (Sarkar, D. (1296) 85)

Ceruloplasmin; Circular dichroism; Fluorescence; Second derivative spectroscopy (De Filippis, V. (1297) 119)

Estradiol 17β-dehydrogenase; Urea; Denaturation; (Human placenta) (Mendoza-Hernández, G. (1297) 219)

Molybdenum cofactor
Dimethyl sulfoxide reductase; Bis(molybdopterin guanine dinucleotide)-molybdenum; (*R. sphaeroides*) (Hilton, J.C. (1294) 111)

Molybdenum oxotransferase
Anaerobic respiration; Dimethylsulfoxide; Oxidoreductase; Primary structure (Shaw, A.L. (1276) 176)

Molybdoenzyme
Trimethylamine-*N*-oxide reductase; Reductase activity; Reductase induction; (*E. coli*) (Iobbi-Nivol, C. (1294) 77)

Nitrate reductase; *narB* gene; Cyanobacterium; (*O. chalybea*) (Unthan, M. (1305) 19)

Monensin
Calcitonin; Cytochalasin B; Colchicine; Aluminum fluoride; Vesicular transport (Cremaschi, D. (1280) 27)

Acidification; ATPase, V-; Chloride channel; Sodium ion–proton exchanger; Rab4; Rab5; (Early endosome); (BBM vesicle); (Proximal tubule) (Marshansky, V. (1284) 171)

Proton–cation exchange; Viscosity; Dipolar field; Time-resolved polarization; Polarization; Ionic selectivity (Nachliel, E. (1285) 131)

Cholesterol; Microdomain; Time-resolved polarization; Polarization (Bransburg-Zabary, S. (1285) 146)

Monoacylglycerol
ATPase, Na^+/K^+-; Diacylglycerol; Fatty acid; Sodium pump (Jack-Hays, M.G. (1279) 43)

Monocarboxylate transporter
cDNA sequence; Glycosylation; Lactate transport; Polymerase chain reaction; (Mouse Ehrlich cell) (Carpenter, L. (1279) 157)

Monocarboxylic acid
Permeability; Fatty acid; Bilayer lipid membrane; Unstirred layer (Evtodienko, V.Yu. (1281) 245)

Monoclonal antibody
N-Acetylmuramyl-L-alanine amidase; Granulocyte (Hoijer, M.A. (1289) 57)

Bilirubin; Epitope; (Human) (Yamaguchi, T. (1289) 110)

Ascorbate peroxidase; Purification; Peptide sequence; *(Euglena)* (Ishikawa, T. (1290) 69)

Hemocyanin; Epitope; Dimer (Jekel, P.A. (1291) 195)

Disulfide reduction; Epitope; Ligand binding; Refolding; Riboflavin carrier protein (Velu, N.K. (1293) 231)

Glycoprotein, multidomain; Thrombospondin 1; Sulfhydryl–disulfide interchange; Inflammation; Cell-matrix interaction; (Human rheumatoid synovial fluid) (Matthias, L.J. (1296) 138)

Plasmin; Calcium; Fibrinogen (Odrljin, T.M. (1298) 69)

Alternative splicing; Receptor metabolism; Signal transduction (Feng, S. (1310) 67)

Cytochrome *c* oxidase; Mitochondrial protein; Immunohistochemistry; Chronic progressive external ophthalmoplegia; (Human) (Taanman, J.-W. (1315) 199)

Leigh syndrome; Mitochondrial myopathy; Cytochrome *c* oxidase deficiency; Immunoblotting (Possekel, S. (1316) 153)

Heat-stable enterotoxin; Human ST receptor; T84 cell (Garrett, B.M. (1317) 149)

Monoclonal antibody 7H11D6
Pregnancy zone protein; α_2-Macroglobulin; Oligosaccharide chain; Disulfide bond; Receptor-binding fragment; (Human) (Jensen, P.E.H. (1293) 254)

Monocyte
Macrophage; Hyperlipidemia; Atherosclerosis; Scavenger receptor (García Villanova, J. (1300) 135)

Ganglioside; Antigen presentation; Immunosuppression (Heitger, A. (1303) 161)

Tumor necrosis factor-α; M-CSF; Mesangial cell; Protein kinase; Signal transduction (Kamanna, V.S. (1313) 161)

NADPH oxidase; Malaria; Hemozoin; Malarial pigment; Phagocytosis; (Human) (Schwarzer, E. (1316) 169)

Autoantigen; Cytokine; Th1; APC; Autoimmune disease (López-Moratalla, N. (1317) 183)

Monoenoic fatty acid
cis Isomer; *trans* Isomer; Platelet; Aggregation; Thromboxane; Collagen; Thrombin; (Porcine) (Wahle, K.W.J. (1301) 141)

Monogalactosyldiacylglycerol
Digalactosyldiacylglycerol; Digestion; Galactolipid; Pancreatic lipase-related protein; Sulfoquinovosyldiacylglycerol (Andersson, L. (1302) 236)

Monomer
Glutathione *S*-transferase-π; Tumor cell; Platelet; ELISA (Kura, T. (1292) 317)

Monomeric HSF
Heat shock; Hsp70 gene; Heat shock factor; (*Schistosoma mansoni*) (Levy-Holtzman, R. (1317) 1)

Mononuclear phagocytic system
Hexadecylphosphocholine; Macrophage; Poly(ethylene glycol); Liposome; LUVET; Stability (Zeisig, R. (1283) 177)

Hexadecylphosphocholine; Macrophage; Phagocytosis; Sterical stabilization; Liposome; Zeta potential; Large unilamellar vesicle; Poly(ethylene glycol) (Zeisig, R. (1285) 237)

Monoolein
Cubic phase; Hemoglobin; Encapsulation; Drug delivery; Lipid (Leslie, S.B. (1285) 246)

Monovalent cation association
Surface potential; Membrane hydration; Hydrodynamic shear boundary; Membrane curvature; Fluorescence probe (Kraayenhof, R. (1282) 293)

Monte Carlo simulation
Ionic channel; Ionic transport; Hydration shell; Electrolitic solution (Degrève, L. (1274) 149)

Morpholine
Ambidentate; Thermodynamics; Electron paramagnetic resonance; Heterocyclic amine; Histidine; Myoglobin (Stephanos, J.J. (1295) 209)

Morphological observation
Liposome; Lymph node; Immunogold electron microscopy (Velinova, M. (1299) 207)

Morris hepatoma 7777
Pyruvate kinase isoenzyme; Electrophoresis; (Rat liver) (Gumińska, M. (1292) 99)

Motility assay, in vitro
Laser optical trap; Myosin; Cardiac myosin (Sugiura, S. (1273) 73)

Motility, in vitro
Actomyosin interaction; Ionic strength; ATP (Kellermayer, M.S.Z. (1277) 107)

Mouse lens
Cross-relaxation time; NMR; Soft contact lens; Spin diffusion; Water-macromolecular interactions (Kuwata, K. (1289) 369)

Mouse mutation
Zinc finger protein; Limb development (Thien, H. (1307) 267)

MPP
Protein import; Processing; bc_1 complex; Degradation; ATP-dependent; (Plant mitochondrion) (Glaser, E. (1275) 33)

MRP8
Calgranulin A; CP10; S100 protein; Myeloid cell; (Mouse) (Nacken, W. (1315) 1)

***hMSH2* gene**
Splicing variant; mRNA; Instability motif; Nonsense codon; (Human lymphocyte) (Marshall, B. (1308) 88)

Mucin
Differentiation; Phospholipid; Lectin; Glycosylation; Cytoprotection (Dohi, T. (1289) 71)

Intestine; Hydrophobic segment; Dicarboxylate; Ion transport (Khatri, I.A. (1309) 58)

Mucous glycoprotein
Nitric oxide; Hydrogen peroxide; Reactive oxygen metabolite; Gastric cytoprotection; Prostaglandin E_2; (Rabbit gastric mucosal cell) (Hata, Y. (1290) 257)

Multichannel microelectrode system
Microinjection; Lucifer yellow; Intercellular translocation (Saito, M. (1289) 1)

Multidomain enzyme
Flavocytochrome *P*-450 BM3; Structural stability; Folding process; Spectroscopic analysis; (*E. coli*) (Munro, A.W. (1296) 127)

Multidrug resistance
P-glycoprotein; Glycoprotein; Pump kinetics; Fluorescence quenching; Daunorubicin (Ghauharali, R.I. (1278) 213)

P-glycoprotein; Glycoprotein; Pesticide resistance; (*H. virescens*) (Lanning, C.L. (1291) 155)

White gene; Transmembrane protein; Embryogenesis (Kuwana, H. (1309) 47)

P-glycoprotein; Modulator interaction; Cooperativity; Interaction, competitive; Interaction, non-competitive (Ayesh, S. (1316) 8)

Multigene family
P-glycoprotein; Short interspersed repetitive element; Gene conversion; Evolution (Childs, S. (1307) 205)

Sulfotransferase; Molecular phylogenetics (Rikke, B.A. (1307) 331)

Multilamellar vesicle
DSC; Titration calorimetry; Circular dichroism; Filipin III; Dimyristoylphosphatidylcholine; Lipid bilayer (Milhaud, J. (1278) 223)

Pressure effect; DPPC; Cholesterol; FTIR (Reis, O. (1279) 5)

Multiline signal
Calcium ion-depleted photosystem II; Manganese-cluster; S_3 signal; Electron spin echo; Electron-electron double resonance (Hara, H. (1276) 140)

Multi-redox site
Electron transport protein; Cytochrome c_3; NMR, ^{1}H-; Interheme interaction; pH effect; (*D. vulgaris* Myazaki F) (Park, J.-S. (1293) 45)

Multi-ubiquitin chain
Ubiquitin; Radioimmunoassay; Specificity (Takada, K. (1290) 282)

Multivalent ligand
Neurotensin; Opioid receptor affinity; Liposome; Neurotensin-lipid conjugate; Fluorescence microscopy (Zhao, J. (1282) 249)

Muramyl dipeptide
Phosphatidylserine; Tumor cytotoxicity; Cytotoxicity; Lipopolysaccharide; Liposome; Macrophage; (Liver) (Daemen, T. (1285) 219)

Murine cDNA
WD repeat protein; Nuclear protein family; cDNA; Transcriptional regulator (Scamps, C. (1306) 5)

Murine IFNα E
Cell proliferation; Embryonic interferon (Beare, D. (1310) 81)

Muscarinic K^+ channel
Nucleoside diphosphate kinase; Amphibian; Antibody; Calcium channel; Atrial myocyte (Yi, X.B. (1310) 343)

Muscarinic receptor
Adenylyl cyclase; G protein; Guanine nucleotide; Myocardium (Piacentini, L. (1282) 11)

Phosphoinositide breakdown; Inositol tetrakisphosphate; Cerebrocortical slice; Depolarization; Osmolarity (Myles, M.E. (1310) 19)

Gastric mucosa; In situ hybridization; Parietal cell; Brain (Helander, K.G. (1312) 158)

Muscle
Chloride channel; Mutagenesis; Blocker; Baculovirus (Astill, D.St.J. (1280) 178)

Utrophin; Dystrophin; Sarcolemma; Cytoskeleton (Ohlendieck, K. (1283) 215)

Dipeptide repeat; Nucleotide sequence; Procyclin; Brain (Geertman, R. (1306) 147)

Creatine kinase; Citrate synthase; Mitochondrion; Ragged red fiber; Human pathology (Bouzidi, M.F. (1316) 61)

GTPase; MyoD; Ras (Caldwell, J.S. (1316) 145)

Myotonic dystrophy; RNA; Protein (Bhagwati, S. (1317) 155)

Muscle contraction
Creatine kinase; Metabolic regulation; Oxidative phosphorylation; Skeletal muscle; (Heart) (Saks, V.A. (1274) 81)

Muscle protein
Troponin I; Molecular sequence data; Evolution; Vertebrate; (*Clupea harengus*); (Fish) (Hodgson, P.A. (1306) 142)

Larynx; Myosin heavy chain gene; Myosin evolution; (Rat) (Merati, A.L. (1306) 153)

Mushroom
Amanitaceae; Fruiting body; Lectin; (*Amanita pantherina*) (Zhuang, C. (1291) 40)

NMR spectroscopy; Ammonium assimilation; *Agaricus* (Baars, J.J.P. (1310) 74)

Mutagenesis
Chloride channel; Muscle; Blocker; Baculovirus (Astill, D.St.J. (1280) 178)

Melibiose carrier; Cation cotransport; (*E. coli*) (Franco, P.J. (1282) 240)

Annexin I; Liposome aggregation; Self-association; Trypsin proteolysis (Porte, F. (1293) 177)

Uroporphyrinogen decarboxylase; Heme (Wyckoff, E.E. (1298) 294)

Calcium-binding protein; α-Parvalbumin; EF hand; Antibody; (Human) (Rhyner, J.A. (1313) 179)

Mutant
Membrane transport; Calcium-transporting ATPase; Uncoupling; Energy transduction; Conformational change (Andersen, J.P. (1275) 118)

Absorbance-detected magnetic resonance; Photosynthesis; Triplet state; Bacterial reaction center (Vrieze, J. (1276) 221)

Absorbance-detected magnetic resonance; Heterodimer; Triplet state; Photosynthesis; Bacterial reaction center (Vrieze, J. (1276) 229)

Carotenoid; Isoprenoid; (*Mucor circinelloides*) (Fraser, P.D. (1289) 203)

Mutant enzyme
Tryptophanase; Pyridoxal phosphate; Quasi-substrate; Circular dichroism; Fluorescence; (*E. coli*) (Ben-Kasus, T. (1294) 147)

Mutation
Ribosomal protein; RNA–protein interaction; (Yeast) (Yeh, L.-C.C. (1308) 133)

Anemia; Hb H; Deletion; mRNA ratio imbalance; Hb A_2; ζ-chain (Smetanina, N.S. (1316) 176)

Mutation site
Cyanobacterium; Fatty acid desaturation; Protein composition; Lipid composition (Gombos, Z. (1299) 117)

Mycobacterium
Phospholipase B; Membrane binding (Maeda, S. (1303) 31)

Mycoplasma
Membrane; Lipid conformation; FTIR; Lipid (Moore, D.J. (1279) 49)

Myelin
Surfactant; Surfactant apoprotein; Membrane fusion; Kinetics; Tubular myelin (Poulain, F.R. (1278) 169)

Myelin basic protein
Experimental allergic encephalomyelitis; NMR spectroscopy; Histidine line broadening (Koshy, K.M. (1293) 23)

Myeloid cell
MRP8; Calgranulin A; CP10; S100 protein; (Mouse) (Nacken, W. (1315) 1)

Myeloid cell nuclear differentiation antigen
Interferon-α; DNA methylation (Kao, W.Y. (1308) 201)

Myeloid leukemia cell
c-*Fes*; Promoter region; Transcription initiation; Negative regulatory element; TF-1 cell; K562 cell (He, Y. (1306) 179)

Myeloperoxidase
Hydroxyl radical; Superoxide; Hypochlorous acid; (*E. coli*); (*P. aeruginosa*) (Britigan, B.E. (1290) 231)

Free fatty acid; Human neutrophil; Lysosomal enzyme; Degranulation; Superoxide generation (Ishida-Okawara, A. (1314) 239)

Myoadenylate deaminase deficiency
AMP deaminase; Tandem promoter; Chromosomal localization (Mahnke-Zizelman, D.K. (1306) 75)

Myoblast
1,25$(OH)_2$-vitamin D_3; Protein kinase C; cyclic AMP; Signal transduction; Calcium ion uptake (Vazquez, G. (1310) 157)

Myocardial infarction
Liposome; Immunoliposome; Long-circulating liposome; Antimyosin; Antibody; Drug targeting (Torchilin, V.P. (1279) 75)

Collagen; Extracellular matrix; FTIR spectroscopy; Heart failure; Near infrared spectroscopy (Liu, K.-Z. (1315) 73)

Myocardium
Adenylyl cyclase; G protein; Guanine nucleotide; Muscarinic receptor (Piacentini, L. (1282) 11)

Adenosine; Magnesium, free; ATP phosphorylation potential; AMP; 5′-Nucleotidase; (Guinea pig); (Heart) (Mallet, R.T. (1290) 165)

MyoD
GTPase; Muscle; Ras (Caldwell, J.S. (1316) 145)

Myofilament sliding
ATP hydrolysis; ATP, caged; Laser flash photolysis; Inorganic phosphate; ADP (Wada, H. (1274) 89)

Myoglobin
NMR; Distal residue; Heme; Hyperfine shift (Yamamoto, Y. (1293) 129)

Cytochrome *c*; Denaturation; Protein stability; Ionic denaturant (Ahmad, Z. (1294) 63)

Solvent effect; Glycerol; Conformational change; Small-angle scattering X-ray analysis; Circular dichroism; (Horse heart) (Barteri, M. (1295) 51)

Ambidentate; Thermodynamics; Electron paramagnetic resonance; Heterocyclic amine; Histidine; Morpholine (Stephanos, J.J. (1295) 209)

Manganese-reconstituted myoglobin; Reaction kinetics; Reaction thermodynamics; Hydrogen peroxide; (Horse heart) (Mondal, M.S. (1296) 174)

Hemoglobin; Indoleamine dioxygenase; Gene structure; Convergent evolution; (*Sulculus diversicolor*) (Suzuki, T. (1308) 41)

Myosin
Motility assay, in vitro; Laser optical trap; Cardiac myosin (Sugiura, S. (1273) 73)

Myosin evolution
Muscle protein; Larynx; Myosin heavy chain gene; (Rat) (Merati, A.L. (1306) 153)

Myosin heavy chain gene
Muscle protein; Larynx; Myosin evolution; (Rat) (Merati, A.L. (1306) 153)

Myosin light chain kinase
Pseudosubstrate; NMR; Structure; (Chicken gizzard); (Muscle) (Barden, J.A. (1292) 106)

Myotonic dystrophy
Triplet repeat; Protein kinase; (Human) (Sasagawa, N. (1315) 112)

Muscle; RNA; Protein (Bhagwati, S. (1317) 155)

Myristic acid
Myristoyl-CoA:protein *N*-myristoyl transferase; Myristoylation (Magnuson, B.A. (1300) 119)

Myristoylation
Myristoyl-CoA:protein *N*-myristoyl transferase; Myristic acid (Magnuson, B.A. (1300) 119)

Myristoyl-CoA:protein *N*-myristoyl transferase
Myristic acid; Myristoylation (Magnuson, B.A. (1300) 119)

Myxothiazol
Mitochondrial disease; Ubiquinol cytochrome *c* reductase; Cytochrome *b*; Human pathology; Antimycin A (Bouzidi, M.F. (1317) 199)

N

NAD
Transhydrogenase; NADP; Proton pump; Membrane protein (Meuller, J. (1273) 191)

Transhydrogenase; Proton pump; NADP; cDNA; (Human); (Mouse) (Arkblad, E.L. (1273) 203)

Methylenetetrahydrofolate; Phosphate activation; NADP; Bifunctionality; (*P. phosphoreum*) (Pawelek, P.D. (1296) 47)

NAD$^+$ analogue
Photoaffinity labeling; Lactate dehydrogenase; Coenzyme binding (Becker, S. (1293) 277)

NAD$^+$-dependent 15-hydroxyprostaglandin dehydrogenase
cDNA; Gene expression; Lung; (Mouse) (Matsuo, M. (1309) 21)

NAD glutamate dehydrogenase
Archaea; Inhibition; Activation; (*Halobacterium halobium*) (Bonete, M.J. (1289) 14)

NADH oxidase
Diarylsulfonylurea; Sulfonylurea; Antitumor drug; Plasma membrane; HeLa cell (Morré, D.J. (1280) 197)

NADH oxidase activity
NO myoglobin; Superoxide; NO formation; Meat curing (Nakamura, M. (1289) 329)

NADH-ubiquinone oxidoreductase
Rotenone; Mitochondrial respiratory chain; Structure–activity relationship (Ueno, H. (1276) 195)

NADH-ubiquinone reductase
Capsaicin; Structure–activity relationship (Satoh, T. (1273) 21)

NADP
Transhydrogenase; NAD; Proton pump; Membrane protein (Meuller, J. (1273) 191)

Transhydrogenase; Proton pump; NAD; cDNA; (Human); (Mouse) (Arkblad, E.L. (1273) 203)

Methylenetetrahydrofolate; Phosphate activation; NAD; Bifunctionality; (*P. phosphoreum*) (Pawelek, P.D. (1296) 47)

NAD(P)-GAPDH
Limited proteolysis; Chloroplast; Light activation; Aggregation; (*S. aureus* endoproteinase V8); (Spinach) (Scheibe, R. (1296) 228)

NAD(P)H dehydrogenase
Mitochondrion; Respiratory chain; Rotenone-insensitive; (*Solanum tuberosum*) (Melo, A.M.P. (1276) 133)

NAD(P)-reducing hydrogenase; Complex I; Iron-sulfur cluster; Cyanobacterium; (*Synechocystis*) (Appel, J. (1298) 141)

NADPH oxidase
Superoxide anion; p40-phox; Cytosolic factor; Neutrophil; Cell-free system (Someya, A. (1277) 217)

Neutrophil; Respiratory burst (Henderson, L.M. (1273) 87)

Neutrophil; Two-hybrid system (Fuchs, A. (1312) 39)

Leukocyte; Tyrosine-phosphorylated protein; Phospholipase C; Pervanadate; Translocation (Kawakami, N. (1314) 167)

Monocyte; Malaria; Hemozoin; Malarial pigment; Phagocytosis; (Human) (Schwarzer, E. (1316) 169)

NADPH-quinone reductase
Induction; 2-Methylene-4-butyrolactone; Two-electron reduction; Drug activity modulator; (*E. coli*) (Hayashi, M. (1273) 165)

NADPH specific
Xylose reductase; Acrylamide quenching; Tryptophan; 1-Anilino-8-napthalene sulfonate; Inactivation kinetics; (*N. crassa*) (Rawat, U.B. (1293) 222)

NAD(P)-reducing hydrogenase
NAD(P)H dehydrogenase; Complex I; Iron-sulfur cluster; Cyanobacterium; (*Synechocystis*) (Appel, J. (1298) 141)

Na^+/H^+ exchange
BCECF; Intracellular pH; Human platelet (Aharonovitz, O. (1284) 227)

$Na^+/K^+/2Cl^-$ cotransport
Occlusion; Membrane vesicle; n-Octyl glucoside; Bumetanide; Cytochalasin B (Krarup, T. (1284) 97)

Cell swelling; Regulatory volume decrease; Calmodulin; Protein kinase C; Protein phosphatase (Mongin, A.A. (1285) 229)

Nanoparticle
Liposome; Retrovirus budding; pH sensitivity (Ropert, C. (1310) 53)

α-Naphthoflavone
Retinoic acid synthesis; Cytochrome *P*-450 1A1; Purification; Citral (Tomita, S. (1290) 273)

β-Naphthoflavone
Purification; Cytochrome *P*-450; AHH; (Rat) (Ohgiya, N. (1289) 122)

NaPi-2
Phosphate cotransporter; Immunodetection; Polyclonal antibody; (Kidney) (Boyer, C.J.C. (1281) 117)

Napin-like protein
Calmodulin; Protein kinase, Ca^{2+}-dependent; (*R. communis*); (*M. charantia*) (Neumann, G.M. (1298) 223)

Napin small chain
Protein kinase, Ca^{2+}-dependent; Calmodulin antagonist; Plant substrate; Purification; Sequencing; (*B. napus*) (Neumann, G.M. (1295) 23)

***narB* gene**
Nitrate reductase; Molybdoenzyme; Cyanobacterium; (*O. chalybea*) (Unthan, M. (1305) 19)

Native membrane
Ethanol; Asymmetric fluidity; Lateral mobility; Rotational mobility; Model membrane; (Mouse); (Cell line Sp2/0-Ag14) (Kang, J.-S. (1281) 157)

Natural anti-phospholipid antibody
Liposome; Complement; Hemoglobin; Antibody (Szebeni, J. (1285) 127)

C_6-NBD-phospholipid
Inverted inner membrane vesicle; Transmembrane movement; Dithionite; (*E. coli*) (Huijbregts, R.P.H. (1280) 41)

NbfCl
ATPase, F_1-; Asymmetry; Chemical labeling (Haughton, M.A. (1276) 154)

Near infrared spectroscopy
Collagen; Extracellular matrix; FTIR spectroscopy; Heart failure; Myocardial infarction (Liu, K.-Z. (1315) 73)

Near-infrared spectroscopy
Microtubular network; Postischemic liver dysfunction; Indocyanine green; Prostaglandin E_1 (Shinohara, H. (1317) 27)

Near-UV
Active oxygen; Cyanobacterium; Lumazine; Pro-oxidant (Shibata, H. (1274) 129)

Negative regulatory element
c-*Fes*; Promoter region; Transcription initiation; TF-1 cell; K562 cell; Myeloid leukemia cell (He, Y. (1306) 179)

Promoter activity; Transcription factor; Sp1; ATPase, Na^+/K^+- (Yu, H.-Y. (1309) 239)

Negative transcription factor
C2C12; Transfection; Gel retardation assay; In vivo footprinting (Ikeda, K. (1308) 67)

Nematode
Cuticle; Freeze-fracture; Non-bilayer structure; Hexagonal II phase; (*T. spiralis*) (Gounaris, K. (1281) 91)

Mitochondrial solute carrier; Transport protein; (*Onchocerca* sp.); (*C. elegans*) (Catmull, J. (1282) 179)

Nematode glycolipid
Inositol lipid; Phosphoglycolipid; Parasite glycolipid; (*A. suum*) (Sugita, M. (1302) 185)

Neonatal tissue development
Iron loading; Iron deficiency; Fe; Copper; ^{64}Cu-uptake; (Rat) (Crowe, A. (1291) 53)

Neopullulanase
Structure–function relationship; Molecular modeling; Substrate binding; Active site; (*B. stearothermophilus*); (*A. oryzae*) (Lamminmäki, U. (1295) 195)

Nephrotoxicity
Glutathione *S*-transferase; MDCK; (Dog kidney); (In vitro) (Bohets, H.H. (1311) 93)

Nested gene
Transcriptional effector CCR4; Nuclear localization sequence (Kurzik-Dumke, U. (1308) 177)

Net charge
Photosynthesis; Water oxidation; Proton release; Electrochromism; Photosystem II; Oxygen-evolving complex (Kretschmann, H. (1274) 1)

Neural development
Neuron-derived orphan receptor-1; Chromosome 9q; Orphan receptor; Steroid/thyroid receptor superfamily (Ohkura, N. (1308) 205)

Neuraminidase
Bacterial toxin; Membrane transport; Hemolysin; Erythrocyte; (*V. parahaemolyticus*) (Huntley, J.S. (1281) 220)

Neuroblastoma
LA-N-1; LA1-5S; LA1-55N; Subtractive cDNA library; LRR protein (Kim, D. (1309) 183)

Neuroleptic
Cytochrome *P*-450; Hepatic regulation; mRNA; (Rat liver) (Rane, A. (1291) 60)

Neuronal
Germ cell nuclear factor; Nuclear receptor superfamily; Expression; Testis (Süsens, U. (1309) 179)

Neuronal cell culture
Neurotoxicity; Cyclosporine; NMR; Glial cell culture; Tacrolimus (FK506) (Serkova, N. (1314) 93)

Neuronal differentiation
Serotonin 1A; Nutrient deprivation; Stress induction; Ganglioside (Singh, J.K. (1310) 201)

Retinoic acid; Cellular aggregation; Immunohistochemistry; Patch clamp; (Embryonic stem cell) (Van Inzen, W.G. (1312) 21)

Neuronal nucleus
Platelet activating factor; Acetyltransferase; (Rabbit cerebral cortex) (Baker, R.R. (1302) 257)

Neuron-derived orphan receptor-1
Chromosome 9q; Orphan receptor; Neural development; Steroid/thyroid receptor superfamily (Ohkura, N. (1308) 205)

Neuropeptide Y
Molecular cloning; Y2-type receptor; (Mouse) (Nakamura, M. (1284) 134)

Neuroprotection
Green fluorescent protein; NGF-induced differentiation; Transfection; Calcium overload (Kuźnicki, J. (1313) 194)

Neurotensin
Opioid receptor affinity; Multivalent ligand; Liposome; Neurotensin-lipid conjugate; Fluorescence microscopy (Zhao, J. (1282) 249)

Neurotensin-lipid conjugate
Neurotensin; Opioid receptor affinity; Multivalent ligand; Liposome; Fluorescence microscopy (Zhao, J. (1282) 249)

Neurotoxicity
Cyclosporine; NMR; Glial cell culture; Neuronal cell culture; Tacrolimus (FK506) (Serkova, N. (1314) 93)

Neurotoxin
Analogue; Structure–function relationship; pH titration; Helix capping; (Scorpion) (Dyke, T.R. (1292) 31)

Botulinum (Moriishi, K. (1307) 123)

Neurotransmitter
Malondialdehyde; Autoxidation; Polyunsaturated fatty acid; Lipofuscin-like pigment (D'Ischia, M. (1290) 319)

Neurotrophin-3
DNA-binding activity; Transcriptional factor; Electrophoretic mobility-shift assay (Iwata, E. (1311) 85)

Neutral cholesterol esterase
Estradiol 17β; Estradiol 17α; J774 A.1 cell; cyclic AMP-dependent protein kinase; Cholesteryl ester accumulation (Tomita, T. (1300) 210)

Neutral lipid
Bleomycin; Surfactant (Swendsen, C.L. (1301) 90)

T cell activation; NMR; Phosphocholine; Phosphatidylcholine (Veale, M.F. (1303) 215)

Neutral proteinase
Thermophile; (*Bacillus*) (Saul, D.J. (1308) 74)

Neutrophil
Superoxide anion; NADPH oxidase; p40-phox; Cytosolic factor; Cell-free system (Someya, A. (1277) 217)

NADPH oxidase; Respiratory burst (Henderson, L.M. (1273) 87)

Oxidative burst; Signal transduction; (Plant) (Dwyer, S.C. (1289) 231)

Gelatinase; Endothelial cell; Tissue inhibitor of metalloproteinase; Zymography; RT-PCR; (Human umbilical vein) (Zaoui, P. (1290) 101)

Signal transduction; Protein kinase; Activation, in vitro; Histone H4 protein kinase (Liu, R. (1295) 89)

Phospholipase A_2; Cytosolic phospholipase A_2; Signal transduction; (Human) (Bauldry, S.A. (1299) 223)

CoA-independent transacylase; Arachidonic acid; Lysophospholipid; Platelet activating factor (Nixon, A.B. (1300) 187)

Cytosolic phospholipase A_2; Leukotriene B_4; Platelet activating factor; (Human) (Bauldry, S.A. (1303) 63)

NADPH oxidase; Two-hybrid system (Fuchs, A. (1312) 39)

Adenylyl cyclase; G protein; Signal transduction (Suzuki, T. (1313) 72)

L-selectin; Sulfatide; Oxygen radical; Adenosine; Tyrosine phosphorylation; Calcium (Bengtsson, T. (1313) 119)

Atherosclerosis; Respiratory burst; Elastase; Xanthine oxidase (Mohàcsi, A. (1316) 210)

Vitamin A deficiency; Cathepsin G; Proteinase (Twining, S.S. (1317) 112)

Neutrophil elastase
Lung surfactant; Lipoprotein (Liau, D.F. (1302) 117)

Neutrophil organelle
Annexin I; Membrane binding (Sjölin, C. (1281) 227)

NF-κB
Pro-inflammatory cytokine; Cell adhesion molecule; Glomerulonephritis; Pyrrolidine dithiocarbamate; Reactive oxygen intermediate (Sakurai, H. (1316) 132)

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NGF-induced differentiation
Green fluorescent protein; Transfection; Neuroprotection; Calcium overload (Kuźnicki, J. (1313) 194)

***N*-glycosylase**
Endonuclease V; Protein–DNA interaction; Cyclobutane pyrimidine dimer; Tetrahydrofuran (Atkins Latham, K. (1292) 324)

NH_4^+
Glutamate; Chloroquine; Cell volume; Cytosolic pH; Lysosome (Busch, G.L. (1285) 212)

NHE1
Sodium ion–proton exchanger; Promoter; pH regulation (Yang, W. (1306) 107)

Nicotinamide nucleotide transhydrogenase
Proton/hydride ratio; Hydride ion transfer; Chromatophore; Liposome; Overexpression (Bizouarn, T. (1273) 4)

Nicotine
Parkinson's disease; Dopamine; 6-Hydroxydopamine; Iron(III); Iron(II); Manganese(II); Fenton's reagent (Linert, W. (1316) 160)

Nifedipine
Verapamil; Diltiazem; Ursodeoxycholic acid; Calcium antagonist; LDL metabolism; (Hamster hepatocyte) (Bouscarel, B. (1301) 230)

Ni(III)-ESR
BLM-Ni(III) complex; Z-form DNA; Guanine binding (Guan, L.L. (1308) 169)

Nitrate
Nitrite toxicity; Isolated hepatocyte; (*O. mykiss*) (Doblander, C. (1289) 270)

Ammonium; Nitrogen fixation; Nitrogenase; (*A. chroococcum*) (Muñoz-Centeno, M.C. (1291) 67)

Nitrate reductase
Nitrate transport; Viologen; (*Paracoccus denitrificans*) (Kučera, I. (1276) 203)

Molybdoenzyme; *narB* gene; Cyanobacterium; (*O. chalybea*) (Unthan, M. (1305) 19)

Sequence analysis; Gene expression; (*Penicillium chrysogenum*) (Haas, H. (1309) 81)

Nitrate transport
Nitrate reductase; Viologen; (*Paracoccus denitrificans*) (Kučera, I. (1276) 203)

Nitration
Placental lactogen; Tyrosine residue; Lactogenic receptor; Somatogenic receptor; (Ovine) (Cymes, G.D. (1294) 31)

Nitric oxide
Iron absorption; Lactoferrin; Transferrin (Sánchez, L. (1289) 291)

Macrophage; Spin trapping; EPR; Dithiocarbamate; (Mouse) (Kotake, Y. (1289) 362)

ADP-ribose, free; ADP-ribosylation; Glycation; Fluoride; (*Artemia*); (Rat liver) (Fernández, A. (1290) 121)

Hydrogen peroxide; Reactive oxygen metabolite; Gastric cytoprotection; Mucous glycoprotein; Prostaglandin E_2; (Rabbit gastric mucosal cell) (Hata, Y. (1290) 257)

Cytochrome *c'*; Photosynthetic bacterium; EPR; Absorption spectrum; Nitrosylheme (Yoshimura, T. (1292) 39)

Dinitrosyl iron complex; Iron complex; Vasodilation (Vanin, A.F. (1295) 5)

Cytochrome *P*-450; Heme; Tyrosine nitration; Surface-enhanced resonance Raman spectroscopy (Quaroni, L. (1296) 5)

Pancreatic islet; Sphingomyelin; Ceramide (Kwon, G. (1300) 63)

Endothelium; Vascular tone; Hypertension; Gene regulation (Gnanapandithen, K. (1308) 103)

Cytokine; Adenine nucleotide; Ketone body ratio; Rat hepatocyte (Kitade, H. (1311) 20)

Arginine; Membrane transport; Lipopolysaccharide; Macrophage (Shibazaki, T. (1311) 150)

S100β; Apoptosis; Programmed cell death; Astrocyte; Cytotoxicity (Hu, J. (1313) 239)

Nitrite toxicity
Nitrate; Isolated hepatocyte; (*O. mykiss*) (Doblander, C. (1289) 270)

Nitrogenase
Ammonium; Nitrate; Nitrogen fixation; (*A. chroococcum*) (Muñoz-Centeno, M.C. (1291) 67)

Nitrogen fixation
Ammonium; Nitrate; Nitrogenase; (*A. chroococcum*) (Muñoz-Centeno, M.C. (1291) 67)

Nitrogen fixation mutant YC16
Repetitive DNA; Novel repeated DNA element; Cyanobacterium; Prokaryote; (*Anabaena* sp. PCC 7120) (Masepohl, B. (1307) 26)

Nitroprusside
Superoxide anion radical; Hydroxyl radical; Spin trap; Microsome; Redox cycling; Iron chelate (Rao, D.N.R. (1289) 195)

Nitrosylheme
Cytochrome *c'*; Nitric oxide; Photosynthetic bacterium; EPR; Absorption spectrum (Yoshimura, T. (1292) 39)

Nitrous oxide
Chinonin; Ischemia-reperfusion injury; Oxygen free radical; Electron spin resonance (Zhao, B.-L. (1315) 131)

Nitroxide toxicity
recA cell; Nuclear magnetic resonance imaging; (*E. coli*) (Wang, G. (1305) 71)

NMR
Phospholipid; Inverted hexagonal (H_{II}) phase; Pulsed electric field (Osman, P. (1278) 160)

Cross-relaxation time; Mouse lens; Soft contact lens; Spin diffusion; Water-macromolecular interactions (Kuwata, K. (1289) 369)

Chitin; Chitosan; Lysozyme; Chitosanase; Sequence specificity; (*Bacillus* sp.) (Vårum, K.M. (1291) 5)

ATP; Diffusion; Magnesium; pH; Temperature (Hubley, M.J. (1291) 115)

ATP; GTP; Binding site; Distance mapping; Microtubule; Tubulin (Rai, S.S. (1292) 77)

Myosin light chain kinase; Pseudosubstrate; Structure; (Chicken gizzard); (Muscle) (Barden, J.A. (1292) 106)

mRNA cap-analogue; Oligopeptide; Stacking interaction; Molecular recognition; Tryptophan-containing peptide (Stolarski, R. (1293) 97)

Myoglobin; Distal residue; Heme; Hyperfine shift (Yamamoto, Y. (1293) 129)

Peptide; Integrin; Receptor; Binding; Structure (Mayo, K.H. (1296) 95)

Dimeric hemoglobin; Heme cavity; Magnetic axes; Hyperfine shift; (*Scapharca inaequivalvis*) (Wu, Y. (1298) 261)

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Lipid analysis; Phospholipid; Phosphonolipid; (*T. thermophila*) (Adosraku, R.K. (1299) 167)

T cell activation; Neutral lipid; Phosphocholine; Phosphatidylcholine (Veale, M.F. (1303) 215)

Glycine; Serine; Kidney; Proximal tubule (Cowin, G.J. (1310) 32)

Glycine; Serine; Kidney; Proximal tubule (Cowin, G.J. (1310) 41)

Neurotoxicity; Cyclosporine; Glial cell culture; Neuronal cell culture; Tacrolimus (FK506) (Serkova, N. (1314) 93)

NMR, ^{13}C-
Phosphatidylethanol; Liposome; Packing constraint; Electrostatic force; Anionic phospholipid; Chaotropic anion; Phospholipid hydration (Victorov, A.V. (1283) 151)

Oxidative stress; Glutathione; Mixed-disulfide formation; Ocular lens (Willis, J.A. (1313) 20)

NMR, ^{19}F-
Carboxyl esterase; Serine esterase; Inhibition; Reaction mechanism; (Chicken liver) (Bowles, M.R. (1298) 167)

NMR, ^{1}H-
Archaebacterium; Liposome; Membrane; Phytanyl group; FABMS (Yamauchi, K. (1283) 163)

β-Carotene; Zeaxanthin; Carotenoid; Lipid membrane (Gabrielska, J. (1285) 167)

β1-3*N*-Acetylglucosaminyltransferase; Rete testicular fluid; Epididymal fluid; Lacto-*N*-triose II; (Rat) (Tsuji, Y. (1289) 115)

Mastoparan-B; Circular dichroism; Simulated annealing; (*V. basalis*) (Chuang, C.-C. (1292) 1)

Electron transport protein; Cytochrome c_3; Multi-redox site; Interheme interaction; pH effect; (*D. vulgaris* Myazaki F) (Park, J.-S. (1293) 45)

α-Lactalbumin; Stopped-flow analysis; Lanthanide series; Metal ion binding (Aramini, J.M. (1293) 72)

NMR, ^{2}H-
Model membrane; Membrane fluidity; Odorant; β-Ionone; Menthone; FTIR (Bouchard, M. (1282) 233)

Dimethylsphingosine; Glycosphingolipid, lyso-; Ceramide; Bilayer (Rigby, A.C. (1284) 129)

NMR, ^{1}H- and ^{13}C-
Acylated sphingomyelin; Sphingomyelin; FAB-MS; (Porcine plasma); (Human umbilical cord) (Kramer, J.K.G. (1303) 47)

NMR, P-31
Creatine kinase; Saturation transfer; Mitochondrion; Enzyme kinetics; Energy metabolism (Van Dorsten, F.A. (1274) 59)

NMR, ^{31}P-
ADP/ATP binding; Erythrocyte; Time domain analysis (VAPRO); (Human); (Chicken) (Stubbs, M. (1291) 143)

NMR, 2-dimensional
HDL; Distance geometry; Convex constraint analysis; Amphipathic helix; pH effect (Wang, G. (1301) 174)

NMR, solid state, ^{2}H- and ^{31}P-
Cyanobacterium; Deuterated biomass; Lipid composition; FAB-MS; GC-MS; LSIMS; (*S. maxima*) (Tropis, M. (1284) 196)

NMR spectrometry
Urine; Urocanic acid; *N*-Acetyl-L-cysteine; Histidine; Mass spectrometry; (Human); (Rat) (Kinuta, M. (1291) 131)

NMR spectroscopy
Myelin basic protein; Experimental allergic encephalomyelitis; Histidine line broadening (Koshy, K.M. (1293) 23)

Mushroom; Ammonium assimilation; *Agaricus* (Baars, J.J.P. (1310) 74)

NMR, two-dimensional
Cytochrome *c*; Imidazole; Structure (Liu, G. (1277) 61)

Cytochrome *c*; Imidazole; (Horse) (Shao, W. (1295) 44)

NMR, ^{51}V-
Phospholipase C; Vanadate; Competitive inhibition; Surface binding (Tan, C.A. (1298) 58)

NMR visibility
Adenosine triphosphate; Creatine phosphate; Cytosolic concentration; Heart; Phosphorylation ratio (Williams, J.P. (1276) 71)

***N,N'*-Dicyclohexylcarbodiimide**
ATP synthase; F_oF_1 complex; Chromatophore (Zanotti, F. (1276) 80)

NO formation
NO myoglobin; NADH oxidase activity; Superoxide; Meat curing (Nakamura, M. (1289) 329)

NO myoglobin
NADH oxidase activity; Superoxide; NO formation; Meat curing (Nakamura, M. (1289) 329)

Non-bilayer structure
Nematode; Cuticle; Freeze-fracture; Hexagonal II phase; (*T. spiralis*) (Gounaris, K. (1281) 91)

Non-cholinergic action
Acetylcholinesterase; Macrophage; Respiratory burst; Mannose receptor; Carbohydrate binding (Klegeris, A. (1289) 159)

Nonelectrolyte
Renkin's equation; Pore size; Error simulation; Outer membrane; Diffusion; (*P. aeruginosa*) (Kulkarni, S.B. (1281) 189)

Nonenal
Hexenal; 4-Hydroxy-2-hexenal; 4-Hydroxy-2-nonenal; Lipoxygenase pathway; Peroxygenase; (*Glycine max* L.) (Takamura, H. (1303) 83)

Nonenzymatic glycation
Pentose; Cross-link (Graham, L. (1297) 9)

Nonlinear regression
Progress curve; Substrate inhibition; Correlation; Integrated rate equation (Schiller, M.R. (1297) 17)

Non-LTR retrotransposon
Repetitive element; CR1; Avidin gene family; (Chicken (*Gallus gallus*)) (Wallén, M.J. (1308) 193)

Non-phosphorus ornithinolipid
Phospholipid; Phosphatidylcholine; Phosphate limitation; *cis*-Vaccenic acid methyl ester; (*H. vulgare*) (Batrakov, S.G. (1302) 129)

Non-seed lectin
(Pod); (Great Northern bean); (*P. vulgaris*) (Kamemura, K. (1289) 87)

Nonsense codon
Splicing variant; mRNA; Instability motif; *hMSH2* gene; (Human lymphocyte) (Marshall, B. (1308) 88)

Noradrenaline
Serotonin; Adrenaline; Platelet; Dense granule; Subpopulation (Smith, C.C.T. (1291) 1)

Protein phosphorylation; Rat hepatocyte; Vasopressin; Angiotensin II; Glucagon (Aggarwal, S.R. (1310) 284)

Northern analysis
Carnitine palmitoyltransferase I; cDNA cloning; Fatty acid metabolism (Yamazaki, N. (1307) 157)

Northern blot analysis
Dideoxy sequencing; PCR; Homology; Gelatinase; (Rabbit) (Matsumoto, S.-i. (1307) 137)

Prolidase; Kidney; (Mouse) (Ishii, T. (1308) 15)

cDNA cloning; *S*-Adenosylmethionine decarboxylase; Polyamine; Oogenesis; Maturation; Embryogenesis; (*Xenopus*) (Shinga, J. (1308) 31)

Novel repeated DNA element
Nitrogen fixation mutant YC16; Repetitive DNA; Cyanobacterium; Prokaryote; (*Anabaena* sp. PCC 7120) (Masepohl, B. (1307) 26)

N-terminal amino-acid sequence analysis
Chymotrypsin; Cold adaptation; Isozyme; Mass spectrometry; Serine proteinase; (*G. morhua*) (Leth-Larsen, R. (1297) 49)

N-terminal fragment
Stanniocalcin; Parathyroid hormone; Mammalian bone metabolism (Yoshiko, Y. (1311) 143)

N-terminal processing
ATP:AMP phosphotransferase; Protein *N*-acetylation; Two-dimensional gel electrophoresis; Cotranslational import; Mitochondrion; (*S. cerevisiae*) (Klier, H. (1280) 251)

Nuclear distribution
Dioxin; Photo-induced binding; Polychlorobiphenyl; Tetrachlorodibenzo-*p*-dioxin (Glitz, E. (1291) 35)

Nuclear extract
DNA pairing; DNA ligase; Testis (Rat) (Acharya, S. (1309) 131)

Nuclear gene
Mitochondrial protein; Electron transfer chain; Mitochondrial myopathy; Bioenergetics (Makris, G.J. (1308) 197)

Nuclear hormone receptor
Fatty acid; Fibrate; Gene expression; Hypolipidemic drug; Lipid metabolism; PPAR; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

Nuclear localization sequence
Translational control; Eukaryotic translation initiation factor 4E; Intracellular distribution; 5′ cap binding; (Yeast) (Ptushkina, M. (1308) 142)

Nested gene; Transcriptional effector CCR4 (Kurzik-Dumke, U. (1308) 177)

Nuclear magnetic resonance
Creatine kinase; Creatine analogue; Creatine-stimulated respiration; Mitochondrion; Porcine carotid artery (Boehm, E.A. (1274) 119)

Waglerin; Protein solution structure; Snake venom; Molecular dynamics simulation; (*T. wagleri*) (Chuang, L.-C. (1292) 145)

β-1,3-Glucanase; Thermoinactivation; Circular dichroism; (*O. xanthinelytica*) (Parrado, J. (1296) 145)

Nuclear magnetic resonance imaging
Nitroxide toxicity; recA cell; (*E. coli*) (Wang, G. (1305) 71)

Nuclear microinjection
Antisense oligonucleotide; G-protein heterotrimer; Receptor–G protein interaction (Kalkbrenner, F. (1314) 125)

Nuclear protein
Steroidogenesis; Cytochrome *P*-450; Porcine CYP17; Leydig cell; Gene transcription; cyclic AMP (Zhang, P. (1307) 73)

Nuclear protein family
WD repeat protein; Murine cDNA; cDNA; Transcriptional regulator (Scamps, C. (1306) 5)

Nuclear receptor
RAR; RXR; Transcription factor; Retinoic acid; Retinoid; Selective ligand (LeMotte, P.K. (1289) 298)

Nuclear receptor superfamily
Germ cell nuclear factor; Expression; Testis; Neuronal (Süsens, U. (1309) 179)

Nuclear tRNA gene
Cytoplasmic $tRNA^{Gln}$; (*Arabidopsis thaliana*) (Akama, K. (1307) 127)

Nucleobase cotransport
Hypoxanthine transport; Sodium ion/nucleobase cotransport; Facilitated-diffusion nucleobase transport; Phorbol ester; Phorbol 12-myristate 13-acetate; Diacylglycerol (Griffith, D.A. (1284) 213)

Nucleoside
8-Azapurine; Fluorescence emission; Purine nucleoside phosphorylase; Substrate; Inhibitor (Wierzchowski, J. (1290) 9)

Nucleoside diphosphate kinase
Chloroplast; Immunoblotting; Affinity chromatography; (Spinach) (Yang, L.-M. (1294) 99)

Amphibian; Antibody; Muscarinic K^+ channel; Calcium channel; Atrial myocyte (Yi, X.B. (1310) 343)

Nucleoside phosphotransferase
5′-Nucleotidase; 2,3-Bisphosphoglycerate; ADP (Pesi, R. (1294) 191)

Nucleoside transport
6-Mercaptopurine riboside; Sodium ion dependence; Brush border membrane; Small intestine; (Rat) (Iseki, K. (1278) 105)

Nucleosome
Chromatin; Histone; Acetylation; Deacetylase; (Maize); (*Physarum*); (Chicken) (Lechner, T. (1296) 181)

4′,6-Diamidino-2-phenylindole; Gene expression; DNA (Caneva, R. (1306) 117)

Nucleosome assembly
Prothymosin α; Histone binding; (Bovine) (Díaz-Jullien, C. (1296) 219)

5′-Nucleotidase
Adenosine; Magnesium, free; ATP phosphorylation potential; AMP; Myocardium; (Guinea pig); (Heart) (Mallet, R.T. (1290) 165)

Nucleoside phosphotransferase; 2,3-Bisphosphoglycerate; ADP (Pesi, R. (1294) 191)

Nucleotide activation
Biosynthetic ornithine decarboxylase; Phosphorylation; *Escherichia coli*; GTP binding (Anagnostopoulos, C.G. (1297) 228)

Nucleotide analog
Subfragment 1; Tryptophan; Bent conformation; ATPase; Energy transduction (Park, S. (1296) 1)

Nucleotide binding site
ATP synthase, F_1F_0-; ATPase, F_1-; Catalytic mechanism; Tryptophan fluorescence (Weber, J. (1275) 101)

Nucleotide exchange factor
Archaeal elongation factor 1β; Heat stability; Primary structure; (*S. solfataricus*) (Raimo, G. (1293) 106)

Nucleotide sequence
$G_{\alpha q}$ protein; Gene expression; cDNA; Tissue distribution; (Human) (Chen, B. (1281) 125)

Trehalose; Maltooligosyltrehalose; Gene cloning; Operon; (*Arthrobacter*) (Maruta, K. (1289) 10)

Trehalose; Maltose; Trehalose synthase; Gene cloning; (*Pimelobacter*) (Tsusaki, K. (1290) 1)

Trehalose; Maltooligosyltrehalose; Gene cloning; (*Sulfolobus*) (Maruta, K. (1291) 177)

Lysophospholipase L_2; Protein expression; Virulence factor; (*V. cholerae*) (Whayeb, S.A. (1300) 1)

Lipase; Expression cloning; Enzyme purification; Thermophilic; (*B. thermocatenulatus*) (Schmidt-Dannert, C. (1301) 105)

Chitinases; Cloning; (*Aeromonas* sp.) (Shiro, M. (1305) 44)

*Glt*x; Glutamyl-tRNA synthetase; Aminoacyl-tRNA synthetase; Archaebacterium (Moore, J.A. (1305) 113)

cDNA; Molecular cloning; SOX; (*Xenopus laevis*) (Komatsu, N. (1305) 117)

Dipeptide repeat; Procyclin; Brain; Muscle (Geertman, R. (1306) 147)

cDNA cloning; Teleost; Gene evolution; Pituitary hormone (Chan, Y.H. (1307) 8)

cDNA; SOX; SRY; (*Xenopus laevis*) (Shiozawa, M. (1309) 73)

Nucleotide synthesis
Phosphoribosylpyrophosphate synthetase; cDNA cloning; (Human) (Ishizuka, T. (1306) 27)

Phosphoribosylpyrophosphate synthetase; Promoter region (Ishizuka, T. (1306) 34)

Nucleotidyldiphosphatase
Golgi; Marker enzyme; GlcNAc transferase; Membrane protein; (*D. discoideum*) (Capasso, J.M. (1281) 15)

Nucleus
Calmodulin inhibitor peptide; Cell cycle (Wang, J. (1313) 223)

Nutrient deprivation
Serotonin 1A; Stress induction; Neuronal differentiation; Ganglioside (Singh, J.K. (1310) 201)

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psbO
Assembly; Cysteine; Site-directed mutagenesis; Size-exclusion chromatography; Protein, 33 kDa (Betts, S.D. (1274) 135)

Obelin mRNA
ATP regulation; Cell-free translation; Luminescence (Matveev, S.V. (1293) 207)

Obesity
Diet fat; mRNA; Lipogenesis; (Mouse) (Cheema, S.K. (1299) 284)

Occluding junction
Actin filament; Endocytosis; Microsphere (Cremaschi, D. (1283) 101)

Occlusion
Membrane vesicle; n-Octyl glucoside; Bumetanide; Cytochalasin B; $Na^+/K^+/2Cl^-$ cotransport (Krarup, T. (1284) 97)

Octanoic acid
Fatty acid β-oxidation; Palmitic acid; Reye's syndrome; Influenza B virus; Surfactant; Acute hepatic encephalopathy; (Mouse liver) (Murphy, M.G. (1315) 208)

n-Octyl glucoside
Occlusion; Membrane vesicle; Bumetanide; Cytochalasin B; $Na^+/K^+/2Cl^-$ cotransport (Krarup, T. (1284) 97)

Ocular lens
Oxidative stress; Glutathione; Mixed-disulfide formation; NMR, ^{13}C- (Willis, J.A. (1313) 20)

Odorant
Model membrane; Membrane fluidity; β-Ionone; Menthone; FTIR; NMR, ^{2}H- (Bouchard, M. (1282) 233)

Okadaic acid
Olfactory signaling; Second messenger cascade; Responsiveness; Phosphatase 2A; Protamine (Kroner, C. (1312) 169)

Plasma membrane redox; Ehrlich cell; Protein kinase C; Phosphoprotein phosphatase; Phorbol ester (Del Castillo-Olivares, A. (1313) 157)

Staurosporine; Insulin inhibition; Serine/threonine phosphorylation (Rondinone, C.M. (1314) 49)

Oleaginous fungi
Fatty acid hydroxylation; Oleoyl-CoA; Membrane fraction; Fatty acid desaturation; (*Mortierella ramanniana*) (Certik, M. (1304) 56)

Oleic acid
L-cell; Fatty acid binding protein; *cis*-Parinaric acid; Fatty acid uptake and esterification; Fluorescence; (Liver) (Murphy, E.J. (1301) 191)

Oleoyl-CoA
Fatty acid hydroxylation; Membrane fraction; Oleaginous fungi; Fatty acid desaturation; (*Mortierella ramanniana*) (Certik, M. (1304) 56)

Olfactory signaling
Second messenger cascade; Responsiveness; Phosphatase 2A; Okadaic acid; Protamine (Kroner, C. (1312) 169)

Oligomeric structure
Hemoglobin; Extracellular hemoglobin; Methemoglobin; Hemichrome; Alkaline dissociation; (*G. paulistus*); (Annelid) (Agustinho, S.C.M. (1298) 148)

Oligonucleotide
Macrophage; Uptake; Endocytosis; Mannose receptor; Endosome (Liang, W.W. (1279) 227)

Liposome; Cationic liposome; Biodistribution; Antisense therapy (Litzinger, D.C. (1281) 139)

Cationic amino acid transport; Amino acid transport; Peripheral blood mononuclear cell; H13 gene; 4F2 gene; Antisense oligonucleotide; (Human) (Chen, S. (1284) 1)

Oligopeptide
Brush border membrane; Ceftibuten transport; Solubilization; Reconstitution; Liposome; Renal cortex (Naasani, I. (1283) 185)

mRNA cap-analogue; NMR; Stacking interaction; Molecular recognition; Tryptophan-containing peptide (Stolarski, R. (1293) 97)

Oligopeptide transport
Proton-coupled transport; Intestinal absorption; Membrane transport protein; Transporter; *Xenopus* oocyte (Mackenzie, B. (1284) 125)

Oligopeptide transporter
Thyrotropin-releasing hormone; Lauric acid conjugated thyrotropin-releasing hormone; Intestinal absorption; Carrier-mediated transport; Absorption enhancer (Tanaka, K. (1283) 119)

Small intestine; (Rat) (Miyamoto, K.-i. (1305) 34)

Oligosaccharide chain
Pregnancy zone protein; α_2-Macroglobulin; Disulfide bond; Receptor-binding fragment; Monoclonal antibody 7H11D6; (Human) (Jensen, P.E.H. (1293) 254)

Oncocytoma
Carcinoma; mitochondrial DNA; Gene expression; Oxidative phosphorylation (Heddi, A. (1316) 203)

Oncomodulin
Parvalbumin; EF hand; Calcium-binding protein; Magnesium binding; Calcium homeostasis; Calcium signaling (Pauls, T.L. (1306) 39)

Ontogeny
Acute phase protein; Inflammation; mRNA quantitation (Rygg, M. (1307) 89)

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Oogenesis
cDNA cloning; *S*-Adenosylmethionine decarboxylase; Polyamine; Maturation; Embryogenesis; Northern blot analysis; (*Xenopus*) (Shinga, J. (1308) 31)

Operon
Trehalose; Maltooligosyltrehalose; Gene cloning; Nucleotide sequence; (*Arthrobacter*) (Maruta, K. (1289) 10)

Opioid
Ornithine decarboxylase; Gene expression; U-50488H (Flamigni, F. (1311) 204)

Opioid receptor affinity
Neurotensin; Multivalent ligand; Liposome; Neurotensin-lipid conjugate; Fluorescence microscopy (Zhao, J. (1282) 249)

Opsonin
Liposome; Blood protein; Protein; Reticuloendothelial system; Phagocytosis; Biodistribution (Oja, C.D. (1281) 31)

Calcium; Chondrosarcoma; Kupffer cell; Liposome; Reticuloendothelial system; Splenic macrophage; (Rat) (Moghimi, S.M. (1285) 56)

Opsonization
Liposome; Positron emission tomography (PET); Drug delivery system; Gene transfer (Oku, N. (1280) 149)

Optical and photoelectrical property
Photosynthetic reaction center protein; Lipid-protein monolayer; Absorption spectrum (Kalabina, N.A. (1284) 138)

Optical spectroscopy
Diadinoxanthin; Diatoxanthin; Energy dissipation; Excited state; Xanthophyll cycle; (Femtosecond) (Frank, H.A. (1277) 243)

Optical spectrum
Cytochrome oxidase; High spin; 5-Coordinate (Liao, G.-L. (1274) 109)

Oral administration
Brush border membrane vesicle; β-Lactam; Penicillin-G; pH gradient; (Antibiotic uptake) (Poschet, J.F. (1278) 233)

Organelle
Protein synthesis; Elongation; Transfer RNA; GTP (Woriax, V.L. (1307) 66)

Organic anion
Transport; Bile acid; Bumetanide; (Rat liver) (Horz, J.A. (1300) 114)

Organic cation
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Osteoporosis
Procollagen peptide; Collagen metabolism; Homocystinuria; Homocysteine; Homocysteic acid; Osteopenia (Lubec, B. (1315) 159)

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CCTγ; Chaperonin; Protein folding; (*Xenopus laevis*) (Walkley, N.A. (1309) 25)

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P110
P85; Phosphatidylinositol 3-kinase; Ras; Transformation (Zhang, Q.-X. (1312) 207)

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Stanniocalcin; N-terminal fragment; Mammalian bone metabolism (Yoshiko, Y. (1311) 143)

Vitamin D_3; Bone; Osteoblast; Interaction; Second messenger (Van Leeuwen, J.P.T.M. (1312) 55)

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Peptide motif
Rheumatoid arthritis; Autoimmunity; Peptide; T cell epitope prediction; HLA-DR; Major histocompatibility complex class II (Friede, T. (1316) 85)

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Peridinin-chlorophyll *a* protein
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Peroxidase-oxidase reaction
Oscillation; Peroxidase; Methylene blue; Dichlorophenol (Kummer, U. (1289) 397)

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PGF
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pH regulation
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Phosphatidylethanolamine *N*-methyltransferase
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Phospholipid molecular species
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Phospholipid monolayer
Annexin V; Calcium; Phospholipid headgroup spacing (Mukhopadhyay, S. (1279) 58)

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Fatty acid desaturation; Photosystem I; (*C. reinhardtii*) (Sato, N. (1274) 112)

Photosystem I; Photosynthesis; X-ray structure; Crystal; Evolution (Fromme, P. (1275) 76)

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Phytanyl group
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Phytohemagglutinin
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Picosecond fluorescence
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PKC translocation
PKC; 26-Succinylbryostatin 1; Antitumor activity (Bignami, G.S. (1312) 197)

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Synaptosome; Ca^{2+}/Mg^{2+} ecto-ATPase; Extracellular ATP; Concanavalin A (Martín-Romero, F.J. (1283) 51)

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Pyruvate; Transport; (*S. cerevisiae*) (Kováč, L. (1289) 79)

Folate-binding protein; Placenta; (Rat) (Da Costa, M. (1292) 23)

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Ehrlich cell; Protein kinase C; Phosphoprotein phosphatase; Okadaic acid; Phorbol ester (Del Castillo-Olivares, A. (1313) 157)

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Plasminogen activator inhibitor
Plasminogen activator; Proteinase domain; Mass spectrometry; Size-exclusion chromatography; Serpin (Strömqvist, M. (1295) 103)

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Plastoquinone
Ubiquinone; Ubiquinol; Plastoquinol; Fluorescence anisotropy; Diphenylhexatriene (Skowronek, M. (1280) 115)

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Acetylhydrolase; Signaling; Homeostasis; Phospholipid; (Mammalian) (Stafforini, D.M. (1301) 161)

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Platelet-derived growth factor
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Platelet-derived growth factor α-receptor
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Glycoprotein; Protein transfer; Liposome; Serotonin analog; (Human platelet) (Dalençon, F. (1302) 241)

Platelet signaling
Pleckstrin; Pleckstrin homology domain; G protein (Abrams, C.S. (1314) 233)

Platelet sPLA2 activity and release
Phospholipase A_2, 14 kDa type II; Protamine; Heparin; Reversible inhibition (Emadi, S. (1300) 226)

Pleckstrin
Pleckstrin homology domain; G protein; Platelet signaling (Abrams, C.S. (1314) 233)

Pleckstrin homology domain
Pleckstrin; G protein; Platelet signaling (Abrams, C.S. (1314) 233)

PLTP
ns-LTP; Pyrene-labeled phospholipid; HDL metabolism (Huuskonen, J. (1303) 207)

Pluripotency
Stem cell; Differentiation; Cell fate; Lineage; Plasticity (Green, J. (1288) R9)

Pneumocyte type II
Terbutaline; Protein kinase A; Calpain (Zimmerman, U.-J.P. (1311) 117)

Point mutation
RNA editing; Mitochondrion; Chimeric gene; (Sugarbeet) (Kubo, T. (1307) 259)

Cholestanol; Serum 27-hydroxycholesterol; Sterol 27-hydroxylase; Cerebrotendinous xanthomatosis (CTX) (Chen, W. (1317) 119)

Polarization
Laurdan; Generalized polarization; Fluorescence; Lipid phase; Membrane; (Human spermatozoon) (Palleschi, S. (1279) 197)

Monensin; Proton–cation exchange; Viscosity; Dipolar field; Time-resolved polarization; Ionic selectivity (Nachliel, E. (1285) 131)

Monensin; Cholesterol; Microdomain; Time-resolved polarization (Bransburg-Zabary, S. (1285) 146)

RNase A; Active site; Denaturation; Conformational change; Pyridoxal 5′-phosphate; Fluorescence lifetime; (Bovine pancreas) (Xiao, G.-S. (1294) 1)

Polarized spectroscopy
Light harvesting complex II (Peterman, E.J.G. (1273) 171)

Poly(A)$^+$
Cell differentiation; RNA transcript; (Murine erythroleukemia cell) (Vizirianakis, I.S. (1312) 8)

Poly(acrylic acid)
Liposome; Endocytosis; Macrophage; Scavenger receptor (Fujiwara, M. (1278) 59)

Poly(ADP-ribose) polymerase
Gene targeting; Homologous recombination; DNA transfection; Poly(ADP-ribosylation) (Waldman, B.C. (1308) 241)

1,5-Dihydroxyisoquinoline; Oxidative damage; (C3H10T1/2 cell) (Shah, G.M. (1312) 1)

Poly(ADP-ribosylation)
Gene targeting; Homologous recombination; DNA transfection; Poly(ADP-ribose) polymerase (Waldman, B.C. (1308) 241)

Polyamine
cDNA cloning; *S*-Adenosylmethionine decarboxylase; Oogenesis; Maturation; Embryogenesis; Northern blot analysis; (*Xenopus*) (Shinga, J. (1308) 31)

Intestine; Intestinal growth; Phytohemagglutinin; Transglutaminase (Sessa, A. (1314) 66)

Aging; Polyamine *N*-acetyltransferase; Polyamine oxidase; Kidney (Rat) (Ferioli, M.E. (1317) 15)

Polyamine *N*-acetyltransferase
Aging; Polyamine; Polyamine oxidase; Kidney (Rat) (Ferioli, M.E. (1317) 15)

Polyamine oxidase
Aging; Polyamine; Polyamine *N*-acetyltransferase; Kidney (Rat) (Ferioli, M.E. (1317) 15)

Polychlorobiphenyl
Dioxin; Nuclear distribution; Photo-induced binding; Tetrachlorodibenzo-*p*-dioxin (Glitz, E. (1291) 35)

Polyclonal antibody
NaPi-2; Phosphate cotransporter; Immunodetection; (Kidney) (Boyer, C.J.C. (1281) 117)

Polyelectrolyte
Phosphatidylcholine; Phosphatidylglycerol; Micellization; Adsorption; Kinetics (Thomas, J.L. (1278) 73)

Polyenoic lipid
Phospholipid; X-ray diffraction; Lipid phase behaviour (Williams, W.P. (1284) 86)

Poly(ethylene glycol)
Liposome; Endocytosis; Macrophage; Drug delivery system (Vertut-Doï, A. (1278) 19)

Hexadecylphosphocholine; Macrophage; Liposome; Mononuclear phagocytic system; LUVET; Stability (Zeisig, R. (1283) 177)

Polyethyleneglycol 8000
Hepatic system A; Arkyrin; Fodrin; (Madine Darby canine kidney cell) (Handlogten, M.E. (1282) 107)

Polyethylene glycolated liposome
Liposome size; Vesicle; Permeability coefficient; Glucose leakage; Poly(ethylene glycol) (Nikolova, A.N. (1304) 120)

Poly(ethylene glycol)-bound NAD$^+$
Alcohol dehydrogenase; Kinetic modelling; Reductive amination, stereospecific; Molecular dynamics and mechanics; (Horse liver) (Vanhommerig, S.A.M. (1295) 125)

Poly(ethylene oxide)-bearing lipid
Liposome; Fusion; Jurkat cell; Diphtheria toxin fragment A; Cytochalasin B (Higashi, N. (1285) 183)

Poly-histidine tag
Photosynthetic reaction center; Isolation method; (Bacterium) (Goldsmith, J.O. (1276) 171)

Polymer
Phase separation; Partitioning of protein; Aqueous two-phase system; Temperature-induced phase separation (Johansson, H.-O. (1290) 289)

Polymerase chain reaction
Monocarboxylate transporter; cDNA sequence; Glycosylation; Lactate transport; (Mouse Ehrlich cell) (Carpenter, L. (1279) 157)

Deletion; Encephalomyopathy; Kearns-Sayre syndrome; mtDNA; Oxidative phosphorylation; Pearson's syndrome; Progressive external ophthalmoplegia; Respiratory chain (Fromenty, B. (1308) 222)

Kearns-Sayre syndrome; Mitochondrion; Zidovudine; 3′-Azido-2′,3′-dideoxythymidine (Wang, H. (1316) 51)

Polymerase chain reaction amplification
Invertebrate; Planaria; Guanine nucleotide binding protein; Protein secretion; ADP-ribosylation factor (Saitoh, O. (1309) 205)

Polymerization
Elongation factor Tu; Light scattering; Phosphorescence; Microscopy (Helms, M.K. (1291) 122)

Adiabatic compressibility; Partial specific volume; Actin; Calcium ion regulation; Acoustics (Suzuki, N. (1292) 265)

Polymerized NAD$^+$
Coenzyme; Alginic acid; Electron transfer (Nakamura, Y. (1289) 221)

Polymorphism
Phase transition; Phospholipid; Membrane; Scanning densitometry; DSC (Koynova, R. (1285) 101)

Phase transition; Phospholipid; Membrane; Time-resolved X-ray diffraction; Differential scanning calorimetry; Scanning densitometry (Tenchov, B. (1285) 109)

Hyperlipoproteinemia; Apolipoprotein E2; *apo E* gene; Restriction fragment length polymorphism; Xanthomatosis (Moriyama, K. (1301) 185)

Polymorphonuclear leukocyte
C_2-ceramide; Superoxide anion; *N*-Formylmethionylleucyl phenylalanine; Protein kinase C; Phospholipase D; (Human) (Richard, A. (1299) 259)

Arachidonic acid metabolism; Leukocyte; Lipoxygenase; (Canine) (Rosolowsky, M. (1300) 143)

Arachidonic acid; Leukotriene B_4; 5-Hydroxyeicosatetraenoic acid; Aggregation; Diabetes (Nakagawa, Y. (1315) 145)

Poly(*N*-isopropylacrylamide)
Liposome; Temperature sensitivity; Dioleoylphosphatidylethanolamine; Lower critical solution temperature; Lamellar-hexagonal transition; Drug delivery system (Hayashi, H. (1280) 127)

Polyol
Erythrocyte; Hemolysis; Cell shape; Dielectric constant; Partition coefficient; Cryoprotectant toxicity (Bakaltcheva, I.B. (1280) 73)

Sorbitol; Dehydrogenase; Affinity labelling; Zinc; (Sheep liver) (Lindstad, R.I. (1293) 267)

Polyphenol, green tea
Lipid peroxidation; Iron chelation; Free-radical scavenger; Antioxidant; EPR; Synaptosome; (Rat) (Guo, Q. (1304) 210)

Polyprenyl diphosphate synthase
Ubiquinone; Isoprenoid (Okada, K. (1302) 217)

Polysaccharide
Phosphomannomutase; Phosphoglucomutase; *rfbK*; *algC*; (*Prochlorothrix*) (Dwivedi, K. (1290) 210)

Polysialic acid
Catalase; Protein delivery; Covalent coupling (Fernandes, A.I. (1293) 90)

Polyunsaturated fatty acid
Malondialdehyde; Autoxidation; Neurotransmitter; Lipofuscin-like pigment (D'Ischia, M. (1290) 319)

Desaturase; Propyl gallate; Microsome; (*Mortierella*); (Liver) (Kawashima, H. (1299) 34)

Prostaglandin; PGE; PGF; (Pineal organ); (*Salmo salar* L.) (Henderson, R.J. (1299) 289)

Docosahexaenoic acid; Retroconversion; Δ^6-Desaturase; Δ^4-Desaturase; Human retinoblastoma; Human leukemia (Marzo, I. (1301) 263)

Desaturation; Cell differentiation; Premonocytic cell (U937, Mono Mac 6); LDL (Hrboticky, N. (1302) 199)

$n-3$ Polyunsaturated fatty acid
Brain; Phospholipid; Water maze; Learning ability; (Rat) (Jensen, M.M. (1300) 203)

Polyunsaturated fatty acid deficiency
Oxidative phosphorylation; Mitochondrion; (Rat) (Fontaine, E.M. (1276) 181)

Polyunsaturated fatty acid diet
Lipogenesis gene; Adipose tissue; Hypertriglyceridemia; Fish oil; (Rat liver) (Šeböková, E. (1303) 56)

Porcine
PTH/PTHrP receptor; Characterization; Cloning (Smith, D.P. (1307) 339)

Porcine carotid artery
Creatine kinase; Creatine analogue; Creatine-stimulated respiration; Mitochondrion; Nuclear magnetic resonance (Boehm, E.A. (1274) 119)

Porcine CYP17
Steroidogenesis; Cytochrome *P*-450; Leydig cell; Gene transcription; cyclic AMP; Nuclear protein (Zhang, P. (1307) 73)

Pore formation
Hemolysin III; (*Bacillus cereus*) (Baida, G.E. (1284) 122)

Pore forming protein
Equinatoxin II; Toxin; Conformation; Fluorescence measurements; Protein denaturation (Malavašič, M. (1280) 65)

Pore size
Renkin's equation; Error simulation; Outer membrane; Nonelectrolyte; Diffusion; (*P. aeruginosa*) (Kulkarni, S.B. (1281) 189)

Porphobilinogen
Porphobilinogen synthase; Mixed pyrrole; (*Rhodobacter spheroides*) (Lüönd, R.M. (1289) 83)

Porphobilinogen synthase
Porphobilinogen; Mixed pyrrole; (*Rhodobacter spheroides*) (Lüönd, R.M. (1289) 83)

Porphyrin
Mitochondrion; Photosensitizer; Cell killing; Oxidative stress; Human cultured cell (Munday, A.D. (1311) 1)

Positron emission tomography (PET)
Liposome; Opsonization; Drug delivery system; Gene transfer (Oku, N. (1280) 149)

Postischemic liver dysfunction
Microtubular network; Indocyanine green; Near-infrared spectroscopy; Prostaglandin E_1 (Shinohara, H. (1317) 27)

Postprandial lipemia
Remnant lipoprotein metabolism; Chylomicron; Triglyceride; Retinyl palmitate; Gel chromatography (Orth, M. (1303) 22)

Postprandial profile
Carboxy terminal peptide; Chylomicron; Dietary-derived lipid; Immunoassay; Immunoaffinity chromatography (Lovegrove, J.A. (1301) 221)

Posttranslational processing
Protein secretion; Thermal hysteresis; Cold survival; (*H. americanus*) (Duncker, B.P. (1292) 312)

Potassium channel
ATP; Beta cell; Electrical activity; (Mouse pancreas) (Ding, W.-G. (1279) 219)

Potassium conductance
Heat shock protein hsp70; Ionic channel; Patch clamp; U937 cell (Negulyaev, Yu.A. (1282) 156)

Potassium ion
Membrane permeability; Calcium ion; Glucose-induced oscillation; Plasma membrane; (Pancreatic β-cell) (Eberhardson, M. (1283) 67)

Lysosome; Latency loss; Photosensitization; H^+-ATPase (Yao, J. (1284) 35)

Potassium ion channel
Potassium transport; Potassium/proton antiporter; Potassium ion channel opener; Sulfonylurea receptor; Mitochondrion (Garlid, K.D. (1275) 123)

Diaphragm sarcoplasmic reticulum; Striated muscle; (Heart) (Picher, M. (1279) 93)

Calcium-activated potassium ion channel; Arterial smooth muscle cell; Pulmonary circulation; Protein kinase (Hartley, S.A. (1283) 192)

Potassium ion channel, Ca^{2+}-dependent
Adriamycin; Propranolol; Transitional metal; Ion transport inhibition; (Human erythrocyte) (Davtyan, T.K. (1297) 182)

Potassium ion channel opener
Potassium transport; Potassium/proton antiporter; Sulfonylurea receptor; Potassium ion channel; Mitochondrion (Garlid, K.D. (1275) 123)

Potassium ion current
HeLa cell; Patch clamp; Ammonium inhibition; Calcium ion dependence (Díaz, M. (1284) 119)

Leydig cell; Patch clamp; pH; Hepes; Sodium ion (Desaphy, J.-F. (1285) 9)

Potassium ion transport
Ehrlich tumor cell; Cotransporter, $Na^+/K^+/Cl^-$; Chloride accumulation; Sodium ion transport; Chloride ion transport (Thomas-Young, R.J. (1280) 231)

Insulin receptor; Fibroblast; Insulin; Cotransporter, $Na^+/K^+/Cl^-$; ATPase, Na^+/K^+-; (Human) (Longo, N. (1281) 38)

Tonoplast; Pyrophosphatase, inorganic; PPase, H^+-; Proton transport; Electrogenic pump (Obermeyer, G. (1284) 203)

Potassium/proton antiporter
Potassium transport; Potassium ion channel opener; Sulfonylurea receptor; Potassium ion channel; Mitochondrion (Garlid, K.D. (1275) 123)

Potassium-translocating gene
Potassium uptake; DNA sequence; Marine bacterium; (*V. alginolyticus*) (Nakamura, T. (1277) 201)

Potassium transport
Sodium transport; Energy transduction; (*E. coli*) (Verkhovskaya, M.L. (1273) 207)

Potassium/proton antiporter; Potassium ion channel opener; Sulfonylurea receptor; Potassium ion channel; Mitochondrion (Garlid, K.D. (1275) 123)

Potassium uptake
Potassium-translocating gene; DNA sequence; Marine bacterium; (*V. alginolyticus*) (Nakamura, T. (1277) 201)

Potential sensitivity
RH dye; Membrane; Boundary potential; Adsorption; ATPase, Na^+/K^+- (Malkov, D.Yu. (1278) 197)

***pox1* mutant**
Phospholipid transfer; Phosphatidylinositol; Phosphatidylserine; Peroxisome; Acyl-CoA oxidase; Yeast; (*S. cerevisiae*) (Ceolotto, C. (1285) 71)

POZ/BTB domain
Zinc finger; Repressor protein (Bhathal, H.S. (1308) 114)

pp60^{src}
Epidermal growth factor receptor (EGF-R); Phosphorylation (Wright, J.D. (1312) 85)

PPAR
Fatty acid; Fibrate; Gene expression; Hypolipidemic drug; Lipid metabolism; Nuclear hormone receptor; Retinoic acid receptor; Transcription (Schoonjans, K. (1302) 93)

PPase, H^+-
Tonoplast; Pyrophosphatase, inorganic; Proton transport; Potassium ion transport; Electrogenic pump (Obermeyer, G. (1284) 203)

PP_i:glucose phosphotransferase
Glucose-6-phosphatase; *N*-Bromoacetylethanolamine phosphate; Microsome; Inorganic pyrophosphatase; (Rat liver) (Foster, J.D. (1297) 244)

p40-phox
Superoxide anion; NADPH oxidase; Cytosolic factor; Neutrophil; Cell-free system (Someya, A. (1277) 217)

p53 protein
Chaperone; Heat shock protein; Binding; Mitochondrion; (Human); (Mouse) (Merrick, B.A. (1297) 57)

P2 purinoceptor
G protein-coupled receptor; cDNA sequence (Southey, M.C. (1309) 77)

Pravastatin
HMG-CoA reductase inhibitor; Lovastatin; Simvastatin; Sterol synthesis; Progesterone secretion (Van Vliet, A.K. (1301) 237)

Prealbumin
Euglobulin; α_{2u}-Globulin; Partial sequence; Allergen; (Rat urine) (Bayard, C. (1290) 129)

Pre-β HDL
HDL; Apolipoprotein A-I; Reverse cholesterol transport (Barrans, A. (1300) 73)

Pregnancy
Endometrium; Gastrin-releasing peptide; Bombesin; Constitutive secretion; (Sheep) (Giraud, A. (1296) 189)

Pregnancy zone protein
α_2-Macroglobulin; Oligosaccharide chain; Disulfide bond; Receptor-binding fragment; Monoclonal antibody 7H11D6; (Human) (Jensen, P.E.H. (1293) 254)

Pregnenolone
Steroid esterification; Hormone; Enzyme purification; Dehydroepiandrosterone; Lecithin-cholesterol acyltransferase (Lavallée, B. (1299) 306)

Pre-initiation complex
Sarkosyl; Transcription; Gene expression; Adenovirus major late promoter; RNA polymerase II (Coda-Zabetta, F. (1306) 194)

Premonocytic cell (U937, Mono Mac 6)
Polyunsaturated fatty acid; Desaturation; Cell differentiation; LDL (Hrboticky, N. (1302) 199)

Prenylation
Farnesyl; Geranylgeranyl; Zaragozic acid; Keratinocyte (MacNulty, E.E. (1289) 41)

Pressure effect
DPPC; Cholesterol; Multilamellar vesicle; FTIR (Reis, O. (1279) 5)

Pretransition
Bilayer ripple; $P_{\beta'}$-phase; Freeze-fracture; Electron microscopy (Meyer, H.W. (1302) 138)

p40 ribosome-associated protein
Processed pseudogene; Laminin receptor precursor, 37 kDa; Retroposon; Ribosome-associated protein (Jackers, P. (1305) 98)

Primary charge separation
Chlorophyll; Excitation energy transfer; Kinetic model; Photosynthesis; Picosecond fluorescence; Thermal equilibrium (Dau, H. (1273) 175)

Primary human peripheral blood lymphocyte
RAD51 gene; Cell cycle; mRNA expression; Protein expression; Transcriptional regulation; (Human) (Flygare, J. (1312) 231)

Primary murine embryonic fibroblast
Serum starvation; Fibroblast growth factor; Biological potential; cDNA sequence (Shin, J.T. (1312) 27)

Primary structure
Anaerobic respiration; Dimethylsulfoxide; Oxidoreductase; Molybdenum oxotransferase (Shaw, A.L. (1276) 176)

Proteinase inhibitor; Subtilisin inhibitor-like protein; (*Streptomyces*) (Terabe, M. (1292) 233)

Archaeal elongation factor 1β; Nucleotide exchange factor; Heat stability; (*S. solfataricus*) (Raimo, G. (1293) 106)

Proteinase inhibitor; (*Capsicum annuum*) (Antcheva, N. (1298) 95)

Phosphatidylinositol 4-kinase; Bovine brain (Gehrmann, T. (1311) 53)

Primer-binding-site
HIV; Reverse transcription; RibonucleaseH; Pausing; Strand-transfer (Pop, M.P. (1307) 193)

Processed pseudogene
Laminin receptor precursor, 37 kDa; Retroposon; p40 ribosome-associated protein; Ribosome-associated protein (Jackers, P. (1305) 98)

Processing
Protein import; MPP; bc_1 complex; Degradation; ATP-dependent; (Plant mitochondrion) (Glaser, E. (1275) 33)

Mitochondrial import; Inhibiting import; (*Glycine max* L.) (Whelan, J. (1312) 48)

Procolipase
Food intake; High fat; Hybridization, in situ; Lipase; Enterostatin; (Pancreas); (Rat stomach) (Sörhede, M. (1301) 207)

Procollagen
Collagen conformation; *S*-2-Aminoethylcysteine; Lysine analogue; Collagen synthesis; Collagen production inhibition (Christner, P. (1294) 37)

Procollagen peptide
Collagen metabolism; Homocystinuria; Homocysteine; Homocysteic acid; Osteoporosis; Osteopenia (Lubec, B. (1315) 159)

Procyclin
Dipeptide repeat; Nucleotide sequence; Brain; Muscle (Geertman, R. (1306) 147)

Progastrin
Constitutive secretion; Regulated secretion; Basal secretion; Gastrin (Varro, A. (1313) 101)

Progesterone
Warfarin; Reductase, NADPH-coupled; Serum protein; Xenobiotic; Microsome; (Rat liver) (Apanovitch, D. (1291) 16)

Diacylglycerol; Choline; Phospholipase D; Diacylglycerol kinase; Phosphatidate phosphohydrolase meiosis; (Oocyte, *Rana*) (Kostellow, A.B. (1304) 263)

Progesterone secretion
HMG-CoA reductase inhibitor; Lovastatin; Simvastatin; Pravastatin; Sterol synthesis (Van Vliet, A.K. (1301) 237)

Programmed cell death
S100β; Nitric oxide; Apoptosis; Astrocyte; Cytotoxicity (Hu, J. (1313) 239)

Progress curve
Nonlinear regression; Substrate inhibition; Correlation; Integrated rate equation (Schiller, M.R. (1297) 17)

Progressive external ophthalmoplegia
Deletion; Encephalomyopathy; Kearns-Sayre syndrome; mtDNA; Oxidative phosphorylation; Pearson's syndrome; Polymerase chain reaction; Respiratory chain (Fromenty, B. (1308) 222)

Pro-inflammatory cytokine
NF-κB; Cell adhesion molecule; Glomerulonephritis; Pyrrolidine dithiocarbamate; Reactive oxygen intermediate (Sakurai, H. (1316) 132)

Prokaryote
Nitrogen fixation mutant YC16; Repetitive DNA; Novel repeated DNA element; Cyanobacterium; (*Anabaena* sp. PCC 7120) (Masepohl, B. (1307) 26)

Prolactin
Calcium; Calmodulin; Protein kinase; Thyrotropin-releasing hormone; Calcium channel (Cui, Z.J. (1310) 343)

Prolidase
Kidney; Northern blot analysis; (Mouse) (Ishii, T. (1308) 15)

Proline
Dipeptidyl peptidase IV; Activation antigen cluster CD26; Proteinase inhibitor (Lambeir, A.-M. (1290) 76)

Proline-rich region
cDNA expression-cloning; Centrosome; Centrosomal protein; Coiled-coil (Angiolillo, A. (1309) 194)

Proline-specific peptidase
Prolyl endopeptidase; Dipeptidyl peptidase IV; Phosphorylation; Substrate; (Modification) (Kaspari, A. (1293) 147)

Proline transport
Photosensitization; Singlet oxygen; Free radical; Plasma membrane; Photodynamic therapy; Membrane potential; Lipid oxidation (Kochevar, I.E. (1280) 223)

Prolyl endopeptidase
Proline-specific peptidase; Dipeptidyl peptidase IV; Phosphorylation; Substrate; (Modification) (Kaspari, A. (1293) 147)

Promoter
H2AZ gene; Promoter activity; (Human) (Hatch, C.L. (1305) 59)

Promoter probe plasmid; Luciferase reporter gene; (*Clavibacter*) (Haapalainen, M. (1305) 130)

Tissue specificity; Estrogen biosynthesis; Exon 1 (Honda, S.-i. (1305) 145)

Sodium ion–proton exchanger; NHE1; pH regulation (Yang, W. (1306) 107)

p36; Annexin II; Alternative splicing (Fey, M.F. (1306) 160)

Fli-1; CAP site; H-DNA; Cas-Br-E integration; Gene regulation; Viral activation (Barbeau, B. (1307) 220)

Collagen IV; Basement membrane; Structure (Grande, J.P. (1309) 85)

Cell type-specific expression; *lac*Z; Differentiation (Tsang, A. (1309) 100)

Protein phosphatase 1α (Nomoto, K. (1309) 221)

Transforming growth factor-β; Receptor; Human lung fibroblast (Bloom, B.B. (1312) 243)

Platelet-derived growth factor B chain; Malignant mesothelioma; Cell line; Transcription regulation (Prins, J.-B. (1317) 223)

Promoter activity
H2AZ gene; Promoter; (Human) (Hatch, C.L. (1305) 59)

Kallikrein; Kallikrein-binding protein; Serpin; Hypertension; Gel retardation; (Rat); (Kidney) (Ma, J.-x. (1307) 285)

Negative regulatory element; Transcription factor; Sp1; ATPase, Na^+/K^+- (Yu, H.-Y. (1309) 239)

Promoter probe plasmid
Promoter; Luciferase reporter gene; (*Clavibacter*) (Haapalainen, M. (1305) 130)

Promoter region
Nucleotide synthesis; Phosphoribosylpyrophosphate synthetase (Ishizuka, T. (1306) 34)

c-*Fes*; Transcription initiation; Negative regulatory element; TF-1 cell; K562 cell; Myeloid leukemia cell (He, Y. (1306) 179)

Promoter sequence
CYP2B1 gene; Sequence comparison; Phenobarbital; (Rat) (Shaw, P.M. (1305) 54)

Proopiomelanocortin
Corticotropin releasing hormone receptor; Corticotropin releasing hormone; Hair growth; (C57BL/6 mouse) (Slominski, A. (1289) 247)

Pro-oxidant
Active oxygen; Cyanobacterium; Lumazine; Near-UV (Shibata, H. (1274) 129)

Propeptide
Pulmonary surfactant; Intracellular trafficking; Secretion (Lin, S. (1312) 177)

Propidium iodide
Asymmetric uptake; Breakdown voltage; Electropermeabilization; Medium conductivity; Membrane resealing (Djuzenova, C.S. (1284) 143)

Propranolol
Adriamycin; Potassium ion channel, Ca^{2+}-dependent; Transitional metal; Ion transport inhibition; (Human erythrocyte) (Davtyan, T.K. (1297) 182)

Proprotein convertase
Lactase-phlorizin hydrolase; Furin; (Intestine) (Wüthrich, M. (1311) 199)

Propyl gallate
Desaturase; Polyunsaturated fatty acid; Microsome; (*Mortierella*); (Liver) (Kawashima, H. (1299) 34)

Prostaglandin
Phospholipase A_2, cytosolic; Ultraviolet light; Keratinocyte; Oxidative stress; Synthesis (Chen, X. (1299) 23)

Prostaglandin synthase 2; Icosanoid; Prostanoid; Gene expression (Herschman, H.R. (1299) 125)

Arachidonic acid; Cytochrome *P*-450; Lipoxygenase; Cyclooxygenase (Rosolowsky, M. (1299) 267)

Polyunsaturated fatty acid; PGE; PGF; (Pineal organ); (*Salmo salar* L.) (Henderson, R.J. (1299) 289)

Phospholipase A_2; Phospholipase A_2 inhibitor; Cyclooxygenase-2 (Schaefers, H.J. (1300) 197)

Transforming growth factor α; Keratinocyte; Mitogenic signaling (Hanke, B. (1310) 137)

Pancreatic islet; Insulin release; Eicosanoid; GTP-binding protein; Interleukin; Cyclooxygenase (Sjöholm, Å. (1313) 106)

Prostaglandin D2
Leukotriene; Mast cell; 5-Lipoxygenase; (Rat basophilic leukemia cell) (Westcott, J.Y. (1303) 74)

Prostaglandin D synthetase
Astrocyte; Radioimmunoassay (Giacomelli, S. (1310) 269)

Prostaglandin E_1
Platelet; Tyrosine phosphorylation; Thrombin; ADP; Focal adhesion kinase (Vostal, J.G. (1314) 1)

Microtubular network; Postischemic liver dysfunction; Indocyanine green; Near-infrared spectroscopy (Shinohara, H. (1317) 27)

Prostaglandin E_2
Nitric oxide; Hydrogen peroxide; Reactive oxygen metabolite; Gastric cytoprotection; Mucous glycoprotein; (Rabbit gastric mucosal cell) (Hata, Y. (1290) 257)

α-Tocopherol; Macrophage; Cyclooxygenase-2; Lipopolysaccharide; Vitamin E; (Rat peritoneal macrophage) (Sakamoto, W. (1304) 139)

Interleukin-1; Interleukin-4; Interferon; Cyclooxygenase-2; WISH cell (Harding, L. (1310) 48)

Astrocyte; Mastoparan; Phospholipase C; Phospholipase A_2; G protein (Nakahata, N. (1310) 60)

Prostaglandin H synthase
Oxidation; Arachidonic acid; Cosubstrate; Leuco-dichlorofluorescein (Larsen, L.N. (1299) 47)

Prostaglandin synthase 2
Prostaglandin; Icosanoid; Prostanoid; Gene expression (Herschman, H.R. (1299) 125)

Prostanoid
Prostaglandin; Prostaglandin synthase 2; Icosanoid; Gene expression (Herschman, H.R. (1299) 125)

Prostanoid receptor
Cross-talk; Protein kinase C; Calcium ion, intracellular; cyclic AMP; Megakaryocyte (Watanabe, T. (1304) 161)

Protamine
Phospholipase A_2, 14 kDa type II; Heparin; Reversible inhibition; Platelet sPLA2 activity and release (Emadi, S. (1300) 226)

Olfactory signaling; Second messenger cascade; Responsiveness; Phosphatase 2A; Okadaic acid (Kroner, C. (1312) 169)

Proteasome
Tick; Ki antigen; PA28; Insect immunity; Autoimmunity (Paesen, G.C. (1309) 9)

Proteasome, 20S
Lipid monolayer; Electron microscopy (Newman, R.H. (1281) 111)

Protein
Liposome; Blood protein; Reticuloendothelial system; Opsonin; Phagocytosis; Biodistribution (Oja, C.D. (1281) 31)

Myotonic dystrophy; Muscle; RNA (Bhagwati, S. (1317) 155)

Proteinase
Epidermal inhibitory pentapeptide; Angiotensin-converting enzyme; (Porcine serum) (Bramucci, M. (1290) 184)

Liver; Ethanol; Lysosome; Hydrolase; Trafficking; Cathepsin L; Intracellular processing (Kharbanda, K.K. (1291) 45)

Luciferase; Protein kinase; Bioluminescence; C-terminus engineering; Peptide (Waud, J.P. (1292) 89)

Cathepsin B; Homology modeling; Substrate docking; (*Ancylostoma caninum*); (Hookworm) (Brinkworth, R.I. (1298) 4)

Calpain; Calcium; cDNA cloning; Cysteine proteinase; Intracellular proteinase (Sorimachi, H. (1309) 37)

Steroidogenesis; Adrenocorticotropin; Arachidonic acid (Mele, P.G. (1310) 260)

Galectin-1; Lectin; Fusion protein; Cell growth control (Adams, L. (1312) 137)

Vitamin A deficiency; Neutrophil; Cathepsin G (Twining, S.S. (1317) 112)

Proteinase domain
Plasminogen activator inhibitor; Plasminogen activator; Mass spectrometry; Size-exclusion chromatography; Serpin (Strömqvist, M. (1295) 103)

Proteinase ECP 32
Metalloproteinase; Purification; Characterization; Ion-exchange chromatography; Gel filtration (size exclusion); (*E. coli*) (Matveyev, V.V. (1296) 55)

Proteinase inhibitor
Dipeptidyl peptidase IV; Activation antigen cluster CD26; Proline (Lambeir, A.-M. (1290) 76)

Primary structure; Subtilisin inhibitor-like protein; (*Streptomyces*) (Terabe, M. (1292) 233)

α_2-Macroglobulin; Signal transduction; α_2-Macroglobulin receptor; Macrophage; Receptor-binding fragment (Howard, G.C. (1297) 111)

Primary structure; (*Capsicum annuum*) (Antcheva, N. (1298) 95)

Protein composition
Cyanobacterium; Fatty acid desaturation; Mutation site; Lipid composition (Gombos, Z. (1299) 117)

Protein crystallization
Mitochondrial cytochrome bc_1 complex; Electron transport; Co-crystallization of cytochrome bc_1–cytochrome c complex; Inhibitor complex (Yu, C.-A. (1275) 47)

Protein delivery
Catalase; Polysialic acid; Covalent coupling (Fernandes, A.I. (1293) 90)

Protein denaturation
Equinatoxin II; Toxin; A pore forming protein; Conformation; Fluorescence measurements (Malavašič, M. (1280) 65)

Protein, dielectric
Photosynthesis; Electron transfer; Charge separation; Dielectric relaxation; Protein relaxation (Krishtalik, L.I. (1273) 139)

Protein–DNA interaction
N-glycosylase; Endonuclease V; Cyclobutane pyrimidine dimer; Tetrahydrofuran (Atkins Latham, K. (1292) 324)

Protein electrostatics
Collagen type I; Protein–salt interactions; Thermal stability; DSC; Hofmeister effect; (Calf skin) (Komsa-Penkova, R. (1297) 171)

Protein engineering
Phaseolin; Protein processing; Seed storage protein; (*P. lunatus*) (Sparvoli, F. (1292) 15)

Protein expression
Lysophospholipase L_2; Nucleotide sequence; Virulence factor; (*V. cholerae*) (Whayeb, S.A. (1300) 1)

Triacylglycerol; Aspartyl protease; (Baculovirus) (Lowe, M.E. (1302) 177)

RAD51 gene; Cell cycle; Primary human peripheral blood lymphocyte; mRNA expression; Transcriptional regulation; (Human) (Flygare, J. (1312) 231)

Protein folding
1-Anilo-8-naphthalene; Chaotropic denaturant; Cardiotoxin III; (*Naja naja atra*) (Kumar, T.K.S. (1294) 103)

β-Lactamase; Equilibrium intermediate; Molten globule; (*E. coli*) (Sarkar, D. (1296) 85)

CCTγ; Chaperonin; Ovary; (*Xenopus laevis*) (Walkley, N.A. (1309) 25)

Protein fusion
Subdomain function; Subunit interaction; Heterologous expression; Affinity purification; Superoxide dismutase; Human (Tibell, L.A.E. (1292) 47)

Protein import
Processing; MPP; bc_1 complex; Degradation; ATP-dependent; (Plant mitochondrion) (Glaser, E. (1275) 33)

Protein induction
Androgen release; Leydig cell; Thyroid hormone; (Goat); (Testis) (Jana, N.R. (1292) 209)

Protein, 33 kDa
Assembly; Cysteine; psbO; Site-directed mutagenesis; Size-exclusion chromatography (Betts, S.D. (1274) 135)

Protein kinase
Calcium-activated potassium ion channel; Potassium ion channel; Arterial smooth muscle cell; Pulmonary circulation (Hartley, S.A. (1283) 192)

Luciferase; Bioluminescence; C-terminus engineering; Peptide; Proteinase (Waud, J.P. (1292) 89)

Acidic ribosomal protein; Ribosome phosphorylation; Phosphorylation; (*S. cerevisiae*) (Szyszka, R. (1293) 213)

Neutrophil; Signal transduction; Activation, in vitro; Histone H4 protein kinase (Liu, R. (1295) 89)

Calcium; Calmodulin; Prolactin; Thyrotropin-releasing hormone; Calcium channel (Cui, Z.J. (1310) 343)

Clk3; LAMMER kinase; Testis specific transcript (Becker, W. (1312) 63)

Tumor necrosis factor-α; M-CSF; Mesangial cell; Monocyte; Signal transduction (Kamanna, V.S. (1313) 161)

Myotonic dystrophy; Triplet repeat; (Human) (Sasagawa, N. (1315) 112)

Tau protein; Alzheimer's disease; Phosphorylation; DRB (Medina, M. (1316) 43)

Protein kinase A
Cholesteryl ester hydrolase; Cholesterol esterase; Developmental change; Enzyme phosphorylation; Transcriptional regulation; (Rat liver) (Natarajan, R. (1302) 153)

Pneumocyte type II; Terbutaline; Calpain (Zimmerman, U.-J.P. (1311) 117)

Protein kinase A isoform
Protein phosphorylation; Gene structure; Cβ2 gene promoter (Wiemann, S. (1309) 211)

Protein kinase C
Cell swelling; Regulatory volume decrease; $Na^+/K^+/2Cl^-$ cotransport; Calmodulin; Protein phosphatase (Mongin, A.A. (1285) 229)

C_2-ceramide; Superoxide anion; *N*-Formylmethionylleucyl phenylalanine; Polymorphonuclear leukocyte; Phospholipase D; (Human) (Richard, A. (1299) 259)

Lipoprotein; Receptor; HepG2 cell; Selective uptake; Lipid; Binding (Brissette, L. (1301) 133)

Sphingosine kinase; Phorbol ester; Cellular differentiation; (Human erythroleukemia cell) (Buehrer, B.M. (1303) 233)

Prostanoid receptor; Cross-talk; Calcium ion, intracellular; cyclic AMP; Megakaryocyte (Watanabe, T. (1304) 161)

CDK-activating kinase; CDK7; Cyclin H; CDK2; Cell cycle (Hamada, K. (1310) 149)

Myoblast; $1,25(OH)_2$-vitamin D_3; cyclic AMP; Signal transduction; Calcium ion uptake (Vazquez, G. (1310) 157)

Heparin-binding EGF-like growth factor; Phorbol ester; Hepatoma-derived cell line (Ito, N. (1310) 163)

Gelatinase B; Lipopolysaccharide; *trans*-Retinoic acid (Houde, M. (1310) 193)

Ras; T cell activation; cyclic AMP (Ohtsuka, T. (1310) 223)

Queuine; Protein phosphatase (Morris, R.C. (1311) 124)

Angiotensin II; TIMP-I; Endothelial cell; (Rat heart) (Chua, C.C. (1311) 175)

Thromboxane A_2 mimetic; Endothelin-1; Rat heart smooth muscle cell (Chua, C.C. (1313) 1)

Distribution dynamics; Confocal laser scanning microscopy; Phorbol myristate acetate; (Madin Darby canine kidney cell) (Godson, C. (1313) 63)

Autophosphorylation; *trans*-Phosphorylation; Phorbol ester; Immunoblot, two-dimensional; cGMP-dependent protein kinase (Gatti, A. (1313) 111)

Plasma membrane redox; Ehrlich cell; Phosphoprotein phosphatase; Okadaic acid; Phorbol ester (Del Castillo-Olivares, A. (1313) 157)

Annexin; Calcium and phospholipid binding protein (Dubois, T. (1313) 290)

Phorbol ester; Streptozotocin-diabetes; Rat hepatocyte (Croquet, F. (1315) 163)

Isoform; Ischemia; (Rat) (Yoshida, K.-i. (1317) 36)

Protein kinase, Ca^{2+}-dependent
Calmodulin antagonist; Napin small chain; Plant substrate; Purification; Sequencing; (*B. napus*) (Neumann, G.M. (1295) 23)

Napin-like protein; Calmodulin; (*R. communis*); (*M. charantia*) (Neumann, G.M. (1298) 223)

Protein kinase II
Protein kinase IV; Structure; Regulation; Calmodulin; Calcium ion; Calcium/calmodulin-dependent kinase (Soderling, T.R. (1297) 131)

Protein kinase IV
Protein kinase II; Structure; Regulation; Calmodulin; Calcium ion; Calcium/calmodulin-dependent kinase (Soderling, T.R. (1297) 131)

Protein modification
Batten disease; Ceroid-lipofuscinosis; Lysosomal storage disease; Carnitine; Trimethyllysine; Metabolic defect; Hereditary disease (Katz, M.L. (1317) 192)

Protein *N*-acetylation
ATP:AMP phosphotransferase; N-terminal processing; Two-dimensional gel electrophoresis; Cotranslational import; Mitochondrion; (*S. cerevisiae*) (Klier, H. (1280) 251)

Protein–peptide interaction
Heat shock protein; Molecular chaperone; Recognition; Degradation pathway (Gorinsky, B. (1293) 243)

Protein phosphatase
Cell swelling; Regulatory volume decrease; $Na^+/K^+/2Cl^-$ cotransport; Calmodulin; Protein kinase C (Mongin, A.A. (1285) 229)

Queuine; Protein kinase C (Morris, R.C. (1311) 124)

Protein phosphatase 1α
Promoter (Nomoto, K. (1309) 221)

Protein phosphorylation
Ryanodine receptor; Sarcoplasmic reticulum (Orr, I. (1283) 80)

Sarcoplasmic reticulum; Sarcalumenin; Ryanodine receptor; Casein kinase II (Shoshan-Barmatz, V. (1283) 89)

Protein kinase A isoform; Gene structure; Cβ2 gene promoter (Wiemann, S. (1309) 211)

Rat hepatocyte; Noradrenaline; Vasopressin; Angiotensin II; Glucagon (Aggarwal, S.R. (1310) 284)

Calmodulin; Serine/threonine protein kinase; CaM kinase; Gastric carcinoma (Ohta, H. (1317) 175)

Protein processing
Phaseolin; Protein engineering; Seed storage protein; (*P. lunatus*) (Sparvoli, F. (1292) 15)

Protein–protein interaction
Oxygen evolution; Protein translocation; Thylakoid membrane; Photosynthesis (Seidler, A. (1277) 35)

Binding protein, Ca^{2+}/membrane; Secretion, Ca^{2+} regulated; Cortical cytoskeleton; Endocytosis (Jost, M. (1313) 283)

Protein relaxation
Photosynthesis; Electron transfer; Charge separation; Dielectric relaxation; Protein, dielectric (Krishtalik, L.I. (1273) 139)

Protein–salt interactions
Collagen type I; Thermal stability; DSC; Protein electrostatics; Hofmeister effect; (Calf skin) (Komsa-Penkova, R. (1297) 171)

Protein secretion
Posttranslational processing; Thermal hysteresis; Cold survival; (*H. americanus*) (Duncker, B.P. (1292) 312)

Invertebrate; Planaria; Guanine nucleotide binding protein; Polymerase chain reaction amplification; ADP-ribosylation factor (Saitoh, O. (1309) 205)

Protein sequence
Cytochrome *c* oxidase; *ctaBCDEF* operon; DNA sequence; Heme O synthesis; (*B. stearothermophilus*) (Kusano, T. (1273) 129)

Protein solution
Hydration; Self-diffusion coefficient; Water molecule (Baranowska, H.M. (1289) 312)

Protein solution structure
Waglerin; Nuclear magnetic resonance; Snake venom; Molecular dynamics simulation; (*T. wagleri*) (Chuang, L.-C. (1292) 145)

Protein–ssDNA complex
Bacteriophage bf; DNA, single-stranded; Gene localization (Chen, W.-P. (1309) 147)

Protein stability
Myoglobin; Cytochrome *c*; Denaturation; Ionic denaturant (Ahmad, Z. (1294) 63)

Protein structure
Cold denaturation; Proton exchange; Ribonuclease A (Nash, D. (1297) 40)

Protein synthesis
Elongation; Transfer RNA; Organelle; GTP (Woriax, V.L. (1307) 66)

Eukaryotic initiation factor 2B; Guanine nucleotide exchange factor; Translational control (Asuru, A.I. (1307) 309)

Eukaryotic initiation factor 2B; Genomic cloning; cDNA; (Rat) (Flowers, K.M. (1307) 318)

Mitochondrion; Ribosome; mRNA; Initiation (Farwell, M.A. (1309) 122)

Elongation factor 3; ATPase; ATP-binding motif; Expression; Plasmid shuffling (Yang, H. (1310) 303)

cyclic AMP; L6 myoblast; Insulin; Mitogen-activated protein kinase (Thompson, M.G. (1311) 37)

Protein transfer
Platelet–liposome protein transfer; Glycoprotein; Liposome; Serotonin analog; (Human platelet) (Dalençon, F. (1302) 241)

Protein translocation
Oxygen evolution; Thylakoid membrane; Protein–protein interaction; Photosynthesis (Seidler, A. (1277) 35)

SecA; Secretion; (*S. lividans*) (Gilbert, M. (1296) 9)

Protein-tyrosine phosphatase inhibitor
Pervanadate; Diperoxovanadate; Connexin43; Gap junctional intercellular communication; Phosphotyrosine (Mikalsen, S.-O. (1290) 308)

Protein volume change
High-temperature and high-pressure bioreactor; β-Glucosidase; Thermostability; Barostability (Hamon, V. (1294) 195)

Protein Z
Acetylated N-terminus; Amino acid sequence; cDNA; (*Hordeum vulgare*) (Rasmussen, S.K. (1297) 127)

Proteoglycan
Glycosaminoglycan; Mesangial cell; Diabetic; (Rat) (Hadad, S.J. (1290) 18)

Proteoliposome
ATP synthase; ATPase, F_1F_0-; Everted membrane vesicle; (Streptomycetes) (Hensel, M. (1274) 101)

Proteolysis
Factor Xa; Plasma membrane; ATPase, H^+-; (Yeast) (Bandell, M. (1280) 81)

Proteolytic activation
Alcohol dehydrogenase; (*C. idellus*); (Liver); (Grass carp) (Tsui, H.-T. (1296) 41)

Proteolytic specificity
Cardosin; Aspartic proteinase; α_{s1}-Casein; Chymosin; (*Cynara cardunculus* L.) (Ramalho-Santos, M. (1297) 83)

Prothrombinase assay
Phospholipid asymmetry; Erythrocyte membrane vesicle; Membrane skeleton; Aminophospholipid translocase; Vanadate (De Jong, K. (1281) 101)

Prothymosin α
Histone binding; Nucleosome assembly; (Bovine) (Díaz-Jullien, C. (1296) 219)

Proton
D-Glucose transport; SGLT2; Brush border membrane vesicle; (Rat kidney) (Vayro, S. (1279) 111)

Proton–cation exchange
Monensin; Viscosity; Dipolar field; Time-resolved polarization; Polarization; Ionic selectivity (Nachliel, E. (1285) 131)

Proton channel
Bafilomycin; ATPase, H^+-; Osteoclast; ATPase, vacuolar (Mattsson, J.P. (1280) 98)

Proton-coupled transport
Oligopeptide transport; Intestinal absorption; Membrane transport protein; Transporter; *Xenopus* oocyte (Mackenzie, B. (1284) 125)

Proton-coupled transporter
Peptide transport; cDNA sequence; Bestatin; Renal tubular reabsorption (Saito, H. (1280) 173)

Proton exchange
Cold denaturation; Protein structure; Ribonuclease A (Nash, D. (1297) 40)

Proton flow
ATP synthase; Conformational coupling; Bioenergetics (Fritsche, O. (1274) 94)

Proton/hydride ratio
Nicotinamide nucleotide transhydrogenase; Hydride ion transfer; Chromatophore; Liposome; Overexpression (Bizouarn, T. (1273) 4)

Proton leak
Perfused muscle; Metabolic control (Rolfe, D.F.S. (1276) 45)

Proton pump
ATPase, vacuolar; Vacuole; Ribosome; (*N. crassa*) (Melnik, V.I. (1273) 77)

Transhydrogenase; NAD; NADP; Membrane protein (Meuller, J. (1273) 191)

Transhydrogenase; NAD; NADP; cDNA; (Human); (Mouse) (Arkblad, E.L. (1273) 203)

ATPase, V-; Plasma membrane; Tracheal smooth muscle (Pacheco, G. (1282) 182)

ATPase, V-; E-subunit; Ion transport; Diptera; (*D. melanogaster*) (Guo, Y. (1283) 4)

Proton release
Photosystem II; Core complex; Difference spectroscopy; Chloride depletion; Electron transfer; Histidine oxidation (Haumann, M. (1273) 237)

Photosynthesis; Water oxidation; Net charge; Electrochromism; Photosystem II; Oxygen-evolving complex (Kretschmann, H. (1274) 1)

Proton transfer
Cytochrome *c* oxidase; Electron transfer; Electrostatics (Rich, P.R. (1275) 91)

Proton transport
Vanadate; Acidification; ATPase, H^+-, vacuolar; (Kidney) (David, P. (1280) 155)

ATPase, Na^+/K^+-; ATPase, H^+/K-; Patch clamp; Current–voltage relationship; (*Xenopus* oocyte) (Rettinger, J. (1282) 207)

Tonoplast; Pyrophosphatase, inorganic; PPase, H^+-; Potassium ion transport; Electrogenic pump (Obermeyer, G. (1284) 203)

Proton uncoupler
Membrane transport; Ion transport; Phospholipid vesicle; Valinomycin (Prabhananda, B.S. (1282) 193)

Proto-oncogene
Angiotensin II; c-*fos*; Hepatocyte (González-Espinosa, C. (1310) 217)

Protoplast
Cytosolic oxaloacetate; Phospho*enol*pyruvate; (*H. vulgare* L.) (Krömer, S. (1289) 343)

Oxaloacetate; Mitochondrial metabolism; Phospho*enol*pyruvate carboxylase; (*H. vulgare* L.) (Krömer, S. (1289) 351)

Protoporphyrin
Merocyanine 540; Erythrocyte deformability; Osmotic hemolysis; Hemolysis (Lagerberg, J.W.M. (1278) 247)

Pro-X carboxypeptidase
Dipeptidyl peptidase II (Rawlings, N.D. (1298) 1)

Proximal histidine
Distal water/hydroxide; Extended X-ray absorption fine structure spectroscopy; Heme protein; Magnetic circular dichroism spectroscopy; Oxygenase (Hawkins, B.K. (1295) 165)

Proximal tubule
α-Aminoisobutyric acid; β-Alanine; (Kidney cell) (Jessen, H. (1282) 225)

Glycine; Serine; NMR; Kidney (Cowin, G.J. (1310) 32)

Glycine; Serine; NMR; Kidney (Cowin, G.J. (1310) 41)

Pseudosubstrate
Myosin light chain kinase; NMR; Structure; (Chicken gizzard); (Muscle) (Barden, J.A. (1292) 106)

Psi-type aggregate
Circular dichroism; Energy migration; Light harvesting chlorophyll *a*/*b* complex (LHCII); Singlet-singlet annihilation; Ultrafast absorbance transient (Barzda, V. (1273) 231)

Psoralen
Transcription; Dihydrofolate reductase gene; Camptothecin; 5,6-Dichloro-1-β-D-ribofuranosyl-benzimidazole (Ljungman, M. (1307) 171)

Psoriasis
Aryl hydrocarbon receptor; Dioxin; Retinoic acid; Keratin; ARNT protein (Wanner, R. (1317) 105)

PTH
Distal tubule; Chloride channel; cyclic AMP (Denicourt, N. (1285) 155)

PTH/PTHrP receptor
Porcine; Characterization; Cloning (Smith, D.P. (1307) 339)

PTPase
Insulin action; Vanadate action; Phenylarsine oxide (Li, J. (1312) 223)

Pulmonary circulation
Calcium-activated potassium ion channel; Potassium ion channel; Arterial smooth muscle cell; Protein kinase (Hartley, S.A. (1283) 192)

Pulmonary surfactant
Hydrophobic surfactant protein; Phospholipid domain; Dipalmitoylphosphatidylcholine (Creuwels, L.A.J.M. (1285) 1)

Intracellular trafficking; Secretion; Propeptide (Lin, S. (1312) 177)

Pulmonary surfactant protein A
Phospholipid liposome–plasma membrane interaction; Liposome; Plasma membrane; SP-A; (Alveolar type II cell) (Kuroki, Y. (1281) 53)

Pulse-chase analysis
N-Glycosylation; Secretion; Platelet-derived growth factor; Mitogenesis; Receptor binding (Kaetzel, Jr., D.M. (1298) 250)

Pulsed electric field
NMR; Phospholipid; Inverted hexagonal (H_{II}) phase (Osman, P. (1278) 160)

Pump kinetics
Multidrug resistance; P-glycoprotein; Glycoprotein; Fluorescence quenching; Daunorubicin (Ghauharali, R.I. (1278) 213)

Pump-probe fluorescence method
Absorption cross-section of photosystem II; Chl*a* fluorescence quenching; Plastoquinone pool (Samson, G. (1276) 147)

Purification
Cortisol; Liver plasma membrane; Cortisol binding protein; Solubilization (Ibarrola, I. (1284) 41)

Cytochrome *P*-450; β-Naphthoflavone; AHH; (Rat) (Ohgiya, N. (1289) 122)

Ascorbate peroxidase; Monoclonal antibody; Peptide sequence; (*Euglena*) (Ishikawa, T. (1290) 69)

Dipeptidyl peptidase II; Seminal plasma; Characterization; Amino acid sequence (Huang, K. (1290) 149)

Retinoic acid synthesis; Cytochrome *P*-450 1A1; Citral; α-Naphthoflavone (Tomita, S. (1290) 273)

β-Mannosidase; Urine; Kidney; (Human) (Guadalupi, R. (1293) 9)

Protein kinase, Ca^{2+}-dependent; Calmodulin antagonist; Napin small chain; Plant substrate; Sequencing; (*B. napus*) (Neumann, G.M. (1295) 23)

Phosphoserine aminotransferase; Aspartate aminotransferase; Cloning; Sequencing; Alkaliphile; (*B. circulans*) (Battchikova, N. (1295) 187)

Proteinase ECP 32; Metalloproteinase; Characterization; Ion-exchange chromatography; Gel filtration (size exclusion); (*E. coli*) (Matveyev, V.V. (1296) 55)

Invertase, S- and F-form; Extracellular enzyme; Characterization; (*A. nidulans*) (Chen, J.-s. (1296) 207)

Purine nucleoside phosphorylase
8-Azapurine; Nucleoside; Fluorescence emission; Substrate; Inhibitor (Wierzchowski, J. (1290) 9)

Purinergic receptor
ATP; Single channel; Macrophage; Phagocytic cell; (Thymic reticulum) (Coutinho-Silva, R. (1278) 125)

ATP; Phagocytic cell; Thymic reticulum; Dendritic cell; Patch clamp (Coutinho-Silva, R. (1280) 217)

cDNA; Amino acid sequence; Human bladder (Longhurst, P.A. (1308) 185)

Purple acid phosphatase
Phosphatase; Denaturation; Intersubunit disulfide bond; Unfolding intermediate; (Red kidney bean) (Cashikar, A.G. (1296) 76)

Purple bacterium
Light harvesting complex; Photosynthesis; Two-dimensional crystallization; Electron microscopy; (*Ectothiorhodospira sp.*); (*Rb. capsulatus*) (Oling, F. (1273) 44)

Photosynthetic Light harvesting system; Light harvesting complex; Energy transfer dynamics; *Rhodopseudomonas acidophila* (Monshouwer, R. (1275) 70)

Photosynthesis; Light harvesting complex; Analytical centrifugation; Electron microscopy; (*Rv. gelatinosus*) (Jirsakova, V. (1277) 150)

Putrescine
Spermidine; Transport; Erythrocyte; Uptake; Export (Fukumoto, G.H. (1282) 48)

Pyrene
Cholesteryl ester transfer protein; Apolipoprotein A-IV (Main, L.A. (1300) 17)

Pyrene-labeled phospholipid
PLTP; ns-LTP; HDL metabolism (Huuskonen, J. (1303) 207)

Pyrene lipid
Lipid peroxidation; Lipoprotein; Atherosclerosis (Viani, P. (1315) 78)

Pyridine nucleotide, reduced
Beta cell, pancreatic; Glucagon; Calmodulin antagonist; Calcium ion, intracellular (He, L.-P. (1310) 325)

Pyridinium cross-link
Collagen; Growth plate; Cartilage; Chondrocyte; Dyschondroplasia; (Tibia); (Chick) (Farquharson, C. (1290) 250)

Pyridoxal 5′-phosphate
RNase A; Active site; Denaturation; Conformational change; Fluorescence lifetime; Polarization; (Bovine pancreas) (Xiao, G.-S. (1294) 1)

Pyridoxal phosphate
Tryptophanase; Quasi-substrate; Circular dichroism; Mutant enzyme; Fluorescence; (*E. coli*) (Ben-Kasus, T. (1294) 147)

Pyrimidine nucleotide biosynthesis
Pyrimidine salvage; Thermostability; Allosteric enzyme; Phosphoribosyl pyrophosphate; (*S. shibatae*); (*E. coli*) (Linde, L. (1296) 16)

Pyrimidine salvage
Pyrimidine nucleotide biosynthesis; Thermostability; Allosteric enzyme; Phosphoribosyl pyrophosphate; (*S. shibatae*); (*E. coli*) (Linde, L. (1296) 16)

Pyrophosphatase
Tetranitromethane; Tonoplast (Yang, S.J. (1294) 89)

Pyrophosphatase, H^+-
Beticolin; ATPase, H^+-; Inhibition; Magnesium ion complex (Gomès, E. (1285) 38)

Pyrophosphatase, inorganic
Tonoplast; PPase, H^+-; Proton transport; Potassium ion transport; Electrogenic pump (Obermeyer, G. (1284) 203)

Pyrrolidine dithiocarbamate
NF-κB; Pro-inflammatory cytokine; Cell adhesion molecule; Glomerulonephritis; Reactive oxygen intermediate (Sakurai, H. (1316) 132)

D-*threo*-1-Pyrrolidino-1-deoxyceramide
Glucosylceramide synthase induction; Acetylsphingosine effect; Glucosylceramide synthase inhibitor; Sphingomyelinase effect; 1-Phenyl-2-decanoylamino-3-morpholino-1-propanol; Ceramide elevation; 1-Phenyl-2-palmitoylamino-3-pyrrolidino-1-propanol (Abe, A. (1299) 333)

Pyruvate
Plasma membrane; Transport; (*S. cerevisiae*) (Kováč, L. (1289) 79)

Pyruvate dehydrogenase
Bisnorlipoic acid; Lipoic acid; Pyruvate dehydrogenase complex; Incorporation, in vivo; (*E. coli*) (Loeffelhardt, S. (1297) 90)

Pyruvate dehydrogenase α-subunit
trans-splicing; (*Trypanosoma cruzi*) (Buscaglia, C.A. (1309) 53)

Pyruvate dehydrogenase α-subunit gene
Transgene expression; Dietary regulation; (Human) (Dey, R. (1305) 189)

Pyruvate dehydrogenase complex
Bisnorlipoic acid; Lipoic acid; Pyruvate dehydrogenase; Incorporation, in vivo; (*E. coli*) (Loeffelhardt, S. (1297) 90)

High-fat diet; Insulin; Liver; Starvation (Sugden, M.C. (1316) 114)

Pyruvate kinase isoenzyme
Electrophoresis; Morris hepatoma 7777; (Rat liver) (Gumińska, M. (1292) 99)

Q

5q13
cDNA; Spinal muscular atrophy (Morrison, K.E. (1308) 97)

Q-cycle
Kinetics; Membrane potential; *Peperomia metallica*; Photocurrent; Patch clamp (Van Voorthuysen, T. (1277) 226)

Cytochrome bc_1 complex; Ubiquinone; Charge-transfer mechanism; Deprotonation (Brandt, U. (1275) 41)

***Qox* operon**
Heme-copper oxidase; Circular dichroism; Magnetic circular dichroism; Lipoprotein; (*Thermus thermophilus*) (Zickermann, I. (1277) 93)

Q_P pocket
Cytochrome bc_1 complex; Histidine ligand; 'Rieske' iron-sulfur cluster; Iron-sulfur cluster; Stigmatellin binding (Link, T.A. (1275) 54)

Quantitative reverse transcription-polymerase chain reaction
Endoplasmic reticulum protein; Chaperone; mRNA expression (Marcus, N. (1309) 253)

Quantum yield spectrum
Excitation transfer; State transition; Light harvesting complex; Photoacoustics (Delosme, R. (1273) 150)

Quartz crystal microbalance
Ganglioside; Sphingomyelin; Glucosylceramide; Air/water interface monolayer; Influenza A virus (Sato, T. (1285) 14)

Quasi-substrate
Tryptophanase; Pyridoxal phosphate; Circular dichroism; Mutant enzyme; Fluorescence; (*E. coli*) (Ben-Kasus, T. (1294) 147)

Quaternary nitrogen compound
Edrophonium; Carnitine distribution; (Rat) (Pessotto, P. (1299) 245)

Quenching
Troponin C; Fluorescence; Conformational change; (Heart) (Dong, W.-J. (1295) 139)

Queuine
Protein kinase C; Protein phosphatase (Morris, R.C. (1311) 124)

Quinaldic acid
Hydroxylation; Kynurenic acid; 2-Oxo-1,2-dihydroquinoline; Quinaldic acid 4-monooxygenase; (*Alcaligenes* sp. F-2) (Bubeck, B. (1293) 39)

Quinaldic acid 4-monooxygenase
Hydroxylation; Kynurenic acid; 2-Oxo-1,2-dihydroquinoline; Quinaldic acid; (*Alcaligenes* sp. F-2) (Bubeck, B. (1293) 39)

Quinolidomicin A_1
Calcium ion release; Ryanodine receptor; Sarcoplasmic reticulum; (Rabbit skeletal muscle) (Ohkura, M. (1294) 177)

Quinone
Photosynthesis; Reaction center; Electron spin polarization; Triplet; Iron removal; Carotenoid; Electron paramagnetic resonance; Spectral simulation (Bosch, M.K. (1276) 106)

Quinone electron acceptor
Bacterial photosynthetic reaction center; Photosynthetic reaction center; FTIR difference spectroscopy; Isotope labeling (Breton, J. (1275) 84)

Quinoprotein
Amine oxidase; Topa quinone; Cofactor; (*A. niger*) (Frébort, I. (1295) 59)

R

Rab4
Acidification; ATPase, V-; Chloride channel; Sodium ion–proton exchanger; Monensin; Rab5; (Early endosome); (BBM vesicle); (Proximal tubule) (Marshansky, V. (1284) 171)

Rab5
Acidification; ATPase, V-; Chloride channel; Sodium ion–proton exchanger; Monensin; Rab4; (Early endosome); (BBM vesicle); (Proximal tubule) (Marshansky, V. (1284) 171)

Rabbit reticulocyte
Lipid peroxidation; Membrane transport; Transferrin-free iron; Iron concentration, incubation time; Piperazine ring-based buffer; Scavenger/producer (Qian, Z.M. (1310) 293)

Rab11 / YPT3
Fruit ripening; Secretion; GTPase; (*Mangifera indica* L.) (Zainal, Z. (1314) 187)

RAD51 gene
Cell cycle; Primary human peripheral blood lymphocyte; mRNA expression; Protein expression; Transcriptional regulation; (Human) (Flygare, J. (1312) 231)

Radical–metal interaction
Electron paramagnetic resonance; Oxygen evolution; Mn complex (Boussac, A. (1277) 253)

Radioimmunoassay
Ubiquitin; Multi-ubiquitin chain; Specificity (Takada, K. (1290) 282)

Astrocyte; Prostaglandin D synthetase (Giacomelli, S. (1310) 269)

RT-PCR; Melanocyte stimulating hormone; Adrenocorticotropin; Ultraviolet B (Chakraborty, A.K. (1313) 130)

Ragged red fiber
Creatine kinase; Citrate synthase; Mitochondrion; Muscle; Human pathology (Bouzidi, M.F. (1316) 61)

Ral
Ras; GTP-binding protein; GTPase activating protein; GAP; (Human platelet) (Bhullar, R.P. (1311) 181)

RalA
RalB; Ras-related GTP-binding protein; Platelet; Subcellular distribution; Concentration; Isoprenylation (Jilkina, O. (1314) 157)

RalB
RalA; Ras-related GTP-binding protein; Platelet; Subcellular distribution; Concentration; Isoprenylation (Jilkina, O. (1314) 157)

Raman spectroscopy
Phage T7; DNA structure; Structure loosening; Ionic strength effect (Gróf, P. (1289) 95)

Random cDNA sequencing
Ribosomal protein L39; (Human) (Otsuka, S. (1308) 119)

***rap* gene**
ras-related gene; GTP-binding protein; Geranylgeranylation; Lysine-rich domain; (*P. polycephalum*) (Kozlowski, P. (1305) 29)

RAR
RXR; Nuclear receptor; Transcription factor; Retinoic acid; Retinoid; Selective ligand (LeMotte, P.K. (1289) 298)

Ras
Diacylglycerol; Ceramide; Fibroblast; Molecular species; Phospholipid (Laurenz, J.C. (1299) 146)

T cell activation; Protein kinase C; cyclic AMP (Ohtsuka, T. (1310) 223)

Ral; GTP-binding protein; GTPase activating protein; GAP; (Human platelet) (Bhullar, R.P. (1311) 181)

P85; P110; Phosphatidylinositol 3-kinase; Transformation (Zhang, Q.-X. (1312) 207)

GTPase; Muscle; MyoD (Caldwell, J.S. (1316) 145)

Ras-homologous
ADP-ribosylation factor; GTPase (Breiner, M. (1308) 1)

Ras protein
Signal transduction; Low molecular weight GTP-binding protein (Raffaniello, R.D. (1311) 111)

***ras*-related gene**
rap gene; GTP-binding protein; Geranylgeranylation; Lysine-rich domain; (*P. polycephalum*) (Kozlowski, P. (1305) 29)

Ras-related GTP-binding protein
RalA; RalB; Platelet; Subcellular distribution; Concentration; Isoprenylation (Jilkina, O. (1314) 157)

Ras transfection
Phosphatidylcholine; Biosynthesis; HaCaT cell (Geilen, C.C. (1299) 299)

Rat adipocyte
Peroxovanadate; Vanadate; Insulin binding; Insulin degradation; Glucose transport (Yu, Z.-W. (1310) 103)

Rat brain
Adenosine A_1 receptor; Desensitization; Internalization; Coated vesicle; Phenylisopropyl adenosine; Adenylyl cyclase (Ruiz, A. (1310) 168)

Rat heart smooth muscle cell
Thromboxane A_2 mimetic; Endothelin-1; Protein kinase C (Chua, C.C. (1313) 1)

Rat hepatocyte
Protein phosphorylation; Noradrenaline; Vasopressin; Angiotensin II; Glucagon (Aggarwal, S.R. (1310) 284)

Cytokine; Adenine nucleotide; Ketone body ratio; Nitric oxide (Kitade, H. (1311) 20)

Protein kinase C; Phorbol ester; Streptozotocin-diabetes (Croquet, F. (1315) 163)

Rat liver microsome
Retinoic acid; Retinol; UDP-glucuronosyl transferase; Glucuronidation; Isomerization; Enzyme induction (Genchi, G. (1289) 284)

Reaction center
Electron transfer; Sequential mechanism; Structure; Electron donor; ENDOR; (*Rb. sphaeroides*) (Huber, M. (1273) 108)

Photosynthesis; Electron spin polarization; Quinone; Triplet; Iron removal; Carotenoid; Electron paramagnetic resonance; Spectral simulation (Bosch, M.K. (1276) 106)

Reaction kinetics
Manganese-reconstituted myoglobin; Myoglobin; Reaction thermodynamics; Hydrogen peroxide; (Horse heart) (Mondal, M.S. (1296) 174)

Reaction mechanism
Tryptophan; Histidine; Active site; Endo-polygalacturonase; (*A. ustus*) (Rao, M.N. (1296) 167)

Carboxyl esterase; Inhibition; Activated carbonyl; Carbonyl hydrate; (Chicken liver) (Berndt, M.C. (1298) 159)

Carboxyl esterase; Serine esterase; NMR, ^{19}F-; Inhibition; (Chicken liver) (Bowles, M.R. (1298) 167)

Reaction sequence
ATPase, Na^+/K^+-; Kinetics; Conformational change; Ion transport (Pratap, P.R. (1285) 203)

Reaction thermodynamics
Manganese-reconstituted myoglobin; Myoglobin; Reaction kinetics; Hydrogen peroxide; (Horse heart) (Mondal, M.S. (1296) 174)

Reactive oxygen intermediate
NF-κB; Pro-inflammatory cytokine; Cell adhesion molecule; Glomerulonephritis; Pyrrolidine dithiocarbamate (Sakurai, H. (1316) 132)

Reactive oxygen metabolite
Nitric oxide; Hydrogen peroxide; Gastric cytoprotection; Mucous glycoprotein; Prostaglandin E_2; (Rabbit gastric mucosal cell) (Hata, Y. (1290) 257)

Reactive oxygen radical
Development; Glutathione; Antioxidant enzyme; DNA ploidy (Sanz, N. (1315) 123)

Reactive oxygen species
Ferritin; Cytochrome *P*-450 inducer; Microsome; Superoxide (Puntarulo, S. (1289) 238)

Lymphocyte activation; Cell cycle; Differential display; Gene expression; Redox control; Oxidative signaling (Goldstone, S.D. (1314) 175)

recA cell
Nitroxide toxicity; Nuclear magnetic resonance imaging; (*E. coli*) (Wang, G. (1305) 71)

Receptor
NMR; Peptide; Integrin; Binding; Structure (Mayo, K.H. (1296) 95)

Lipoprotein; HepG2 cell; Selective uptake; Lipid; Binding; Protein kinase C (Brissette, L. (1301) 133)

Transforming growth factor-β; Promoter; Human lung fibroblast (Bloom, B.B. (1312) 243)

Drug targeting; Fluorothymidine; Azidothymidine; HIV; Scavenger; Macrophage (Mankertz, J. (1317) 233)

Receptor associated protein
Dexamethasone; LDL receptor-related protein; mRNA; α_2-Macroglobulin; LDL receptor (Kancha, R.K. (1301) 213)

Receptor binding
N-Glycosylation; Secretion; Pulse-chase analysis; Platelet-derived growth factor; Mitogenesis (Kaetzel, Jr., D.M. (1298) 250)

Receptor-binding fragment
Pregnancy zone protein; α_2-Macroglobulin; Oligosaccharide chain; Disulfide bond; Monoclonal antibody 7H11D6; (Human) (Jensen, P.E.H. (1293) 254)

α_2-Macroglobulin; Proteinase inhibitor; Signal transduction; α_2-Macroglobulin receptor; Macrophage (Howard, G.C. (1297) 111)

Receptor–G protein interaction
Antisense oligonucleotide; Nuclear microinjection; G-protein heterotrimer (Kalkbrenner, F. (1314) 125)

Receptor internalization
Astrocytoma; U138MG cell; Endothelin; Endothelin receptor; Phosphatidylinositol hydrolysis; (Human) (Wu-Wong, J.R. (1311) 155)

Receptor mediation
Liposome; Asialofetuin; Amphiphilic compound; Gene transfer; Hepatocyte; (Rat) (Hara, T. (1278) 51)

Receptor metabolism
Alternative splicing; Monoclonal antibody; Signal transduction (Feng, S. (1310) 67)

Receptor regulation
Substance P; Chief cell; Pepsinogen release (Kitsukawa, Y. (1312) 105)

Recessive X-linked ichthyosis
Cholesteryl ester transfer protein; Lipid transfer protein; Apolipoprotein; Amphipathic helix; Cholesteryl sulfate; Sperm acrosome; Lipopolysaccharide (Connolly, D.T. (1304) 145)

Recognition
Heat shock protein; Molecular chaperone; Degradation pathway; Protein–peptide interaction (Gorinsky, B. (1293) 243)

Recombinant apolipoprotein C-II
Lipoprotein lipase; Methionine aminopeptidase; Electrospray mass spectrometry (Wang, C.-S. (1302) 224)

Recombinant baculovirus
SV40; Virus-like particle (VLP); Reconstitution, in vitro; Analytical ultracentrifugation (Kosukegawa, A. (1290) 37)

Recombinant enzyme
Enzyme replacement therapy; Lysosomal storage disease (Bijvoet, A.G.A. (1308) 93)

Recombinant human granulocyte-macrophage colony-stimulating factor
FTIR; Disulfide reduction; Thermal denaturation; β-Aggregation (Jiang, H. (1294) 121)

Recombination
Homologous DNA pairing protein; Spermatocyte; (Rat) (Namsaraev, E.A. (1305) 172)

Reconstituted HDL
HDL; Cholesterol efflux; Reverse cholesterol transport; Macrophage (Bernini, F. (1299) 103)

Reconstitution
Band 3; Membrane protein; Triton X-100; Anion transport (Boulter, J.M. (1280) 265)

Brush border membrane; Ceftibuten transport; Oligopeptide; Solubilization; Liposome; Renal cortex (Naasani, I. (1283) 185)

Lysophosphatidylcholine:acyl-CoA acyltransferase; Acyl-CoA specificity; Solubilization; Topological localization; (Pig spleen) (Kerkhoff, C. (1302) 249)

Reconstitution, in vitro
SV40; Recombinant baculovirus; Virus-like particle (VLP); Analytical ultracentrifugation (Kosukegawa, A. (1290) 37)

Red blood cell
Ataxia telangiectasia; SH group; GSH; (Human blood) (Rybczyńska, M. (1302) 231)

Carnitine palmitoyl transferase; Carnitine; Membrane phospholipid turnover; Hemodialysis (De los Reyes, B. (1315) 37)

Red cell
Anion exchange; Activation energy (Baker, G.F. (1285) 192)

Red-edge excitation shift
Corneal protein; Keratan sulfate proteoglycan; Fluorescence spectroscopy (Uma, L. (1294) 8)

Redox balance
Mitochondion–chloroplast interaction; Mitochondrion; Chloroplast; ATP production; Biosynthesis (Gardeström, P. (1275) 38)

Redox control
Lymphocyte activation; Cell cycle; Differential display; Gene expression; Oxidative signaling; Reactive oxygen species (Goldstone, S.D. (1314) 175)

Redox cycling
Nitroprusside; Superoxide anion radical; Hydroxyl radical; Spin trap; Microsome; Iron chelate (Rao, D.N.R. (1289) 195)

Redox potential
Cytochrome c_3; Molecular property; Biological activity; Perm selective membrane electrode; (*D. africanus*) (Pieulle, L. (1273) 51)

Laccase; Kinetics; Stability; Bilirubin oxidase; Fungus (Xu, F. (1292) 303)

Redox protein
Blue copper protein; Phytocyanin; Stellacyanin; (*C. sativus*) (Schininà, M.E. (1297) 28)

5α-Reductase
Steroidogenesis; Cloning; Expression; Intracrinology; (Rat) (Lopez-Solache, I. (1305) 139)

Reductase activity
Trimethylamine-*N*-oxide reductase; Reductase induction; Molybdoenzyme; (*E. coli*) (Iobbi-Nivol, C. (1294) 77)

Reductase induction
Trimethylamine-*N*-oxide reductase; Reductase activity; Molybdoenzyme; (*E. coli*) (Iobbi-Nivol, C. (1294) 77)

Reductase, NADPH-coupled
Warfarin; Progesterone; Serum protein; Xenobiotic; Microsome; (Rat liver) (Apanovitch, D. (1291) 16)

Reduction potential
Iron-sulfur cluster; Stopped-flow spectroscopy; Site-directed mutagenesis; (*C. pasteurianum*); (*E. histolytica*) (Quinkal, I. (1295) 201)

Reductive amination, stereospecific
Poly(ethylene glycol)-bound NAD^+; Alcohol dehydrogenase; Kinetic modelling; Molecular dynamics and mechanics; (Horse liver) (Vanhommerig, S.A.M. (1295) 125)

Refolding
Disulfide reduction; Epitope; Ligand binding; Monoclonal antibody; Riboflavin carrier protein (Velu, N.K. (1293) 231)

Regular solution
DSC; Bilayer; Cholesterol; Partitioning; Phospholipid; Thermodynamics (Spink, C.H. (1279) 190)

Regulated secretion
Constitutive secretion; Basal secretion; Gastrin; Progastrin (Varro, A. (1313) 101)

Regulation
Protein kinase II; Protein kinase IV; Structure; Calmodulin; Calcium ion; Calcium/calmodulin-dependent kinase (Soderling, T.R. (1297) 131)

Lymphocyte; Telomerase (Yamada, O. (1314) 260)

Regulatory enzyme
Glucose metabolism; Diabetes; (Rat) (Hotta, K. (1289) 145)

Regulatory volume decrease
Cell swelling; $Na^+/K^+/2Cl^-$ cotransport; Calmodulin; Protein kinase C; Protein phosphatase (Mongin, A.A. (1285) 229)

Remnant lipoprotein metabolism
Postprandial lipemia; Chylomicron; Triglyceride; Retinyl palmitate; Gel chromatography (Orth, M. (1303) 22)

Remodeling, LpA-I
LpA-I; CETP; Hepatic lipase (Ohta, T. (1303) 137)

Renal Brush border membrane vesicle
Albumin; Glycation; Binding; Aging (Verbeke, P. (1282) 93)

Renal carcinoma
Cholesterol; HMG-CoA reductase; LDL receptor; Transcript (Rudling, M. (1299) 75)

Renal cortex
Brush border membrane; Ceftibuten transport; Oligopeptide; Solubilization; Reconstitution; Liposome (Naasani, I. (1283) 185)

Renal secretion
Organic cation; Tetraethylammonium; Membrane fluidity; Cholesterol; Brush border membrane (Nabekura, T. (1283) 232)

Renal tubular reabsorption
Peptide transport; Proton-coupled transporter; cDNA sequence; Bestatin (Saito, H. (1280) 173)

Renal tubule
1,5-Anhydroglucitol; Fructose; Mannose; Sugar transport (Yamanouchi, T. (1291) 89)

Renkin's equation
Pore size; Error simulation; Outer membrane; Nonelectrolyte; Diffusion; (*P. aeruginosa*) (Kulkarni, S.B. (1281) 189)

Repair
Fibronectin; Fibronectin fragment; Cartilage; Chondrocyte; Antioxidant; Chondrolysis (Homandberg, G.A. (1317) 134)

Fibronectin; Fibronectin fragment; Cartilage; Chondrocyte; Antioxidant; Chondrolysis (Homandberg, G.A. (1317) 143)

Reperfusion injury
Free radical; Oxidant; Inflammation; Integrin expression; Ischemia (Serrano Jr., C.V. (1316) 191)

Repetitive DNA
Nitrogen fixation mutant YC16; Novel repeated DNA element; Cyanobacterium; Prokaryote; (*Anabaena* sp. PCC 7120) (Masepohl, B. (1307) 26)

Repetitive element
CR1; Non-LTR retrotransposon; Avidin gene family; (Chicken (*Gallus gallus*)) (Wallén, M.J. (1308) 193)

Reporter gene
Liposome; Gene expression; LacZ; β-Galactosidase; Ultrastructure; Cytofectin; Atomic force microscopy (Wheeler, C.J. (1280) 1)

Transcription; Gene expression; β_2-Adrenergic receptor; Transfection; Luciferase (McGraw, D.W. (1305) 135)

Repressor protein
Zinc finger; POZ/BTB domain (Bhathal, H.S. (1308) 114)

Resonance energy transfer
Liposome; Phospholipid; Dermal penetration; Confocal laser scanning microscopy; (Stratum corneum) (Kirjavainen, M. (1304) 179)

Respiration
Cytochrome oxidase; Plasma membrane; Thylakoid membrane; Cyanobacterium (Peschek, G.A. (1275) 27)

Respiration rate
Bioenergetics; Hepatocyte; Mitochondrion; Perifusion; (Permeabilized cell) (Boschmann, M. (1273) 223)

Respiratory burst
NADPH oxidase; Neutrophil (Henderson, L.M. (1273) 87)

Acetylcholinesterase; Macrophage; Mannose receptor; Carbohydrate binding; Non-cholinergic action (Klegeris, A. (1289) 159)

Atherosclerosis; Neutrophil; Elastase; Xanthine oxidase (Mohàcsi, A. (1316) 210)

Respiratory chain
Mitochondrion; NAD(P)H dehydrogenase; Rotenone-insensitive; (*Solanum tuberosum*) (Melo, A.M.P. (1276) 133)

Deletion; Encephalomyopathy; Kearns-Sayre syndrome; mtDNA; Oxidative phosphorylation; Pearson's syndrome; Polymerase chain reaction; Progressive external ophthalmoplegia (Fromenty, B. (1308) 222)

Aging; Mitochondrial respiration; Ubiquinol cytochrome *c* reductase; Cytochrome *c* oxidase; Cytochrome (Boffoli, D. (1315) 66)

Respiratory distress syndrome
Surfactant protein A; Lamellar body; (Lung) (Henry, M. (1300) 97)

Respiratory enzyme
Dioxygen; Channel (Riistama, S. (1275) 1)

Responsiveness
Olfactory signaling; Second messenger cascade; Phosphatase 2A; Okadaic acid; Protamine (Kroner, C. (1312) 169)

Restriction fragment length polymorphism
Hyperlipoproteinemia; Apolipoprotein E2; *apo E* gene; Polymorphism; Xanthomatosis (Moriyama, K. (1301) 185)

Retention signal
Cyclophilin; Endoplasmic reticulum; Secretion; Human milk (Mariller, C. (1293) 31)

Rete testicular fluid
β1-3*N*-Acetylglucosaminyltransferase; Epididymal fluid; Lacto-*N*-triose II; NMR, ^{1}H-; (Rat) (Tsuji, Y. (1289) 115)

Reticuloendothelial system
Liposome; Liposome clearance; Drug delivery; Liver perfusion (Liu, F. (1278) 5)

Liposome; Blood protein; Protein; Opsonin; Phagocytosis; Biodistribution (Oja, C.D. (1281) 31)

Calcium; Chondrosarcoma; Kupffer cell; Liposome; Opsonin; Splenic macrophage; (Rat) (Moghimi, S.M. (1285) 56)

Retina
Zinc finger gene; Organ of Corti; Gene regulation (Rivolta, M.N. (1306) 127)

Retinal disease
Eye lens; Digital image analysis; Aqueous humor; Liposome; Lipid peroxidation; Cataract (Babizhayev, M.A. (1315) 87)

Retinal pigment epithelium
Water channel; Untranslated region; 3′-UTR sequence; Aquaporin; *AQP-1*; (Human RPE) (Ruiz, A. (1282) 174)

Retinoic acid
Retinol; UDP-glucuronosyl transferase; Glucuronidation; Isomerization; Rat liver microsome; Enzyme induction (Genchi, G. (1289) 284)

RAR; RXR; Nuclear receptor; Transcription factor; Retinoid; Selective ligand (LeMotte, P.K. (1289) 298)

Temarotene; Acitretin; *N*-(4-Hydroxyphenyl)retinamide; Hydrolase; Retinol-binding protein; (Rat) (Ritter, S.J. (1291) 228)

Retinol; Vitamin A metabolism; 14-Hydroxy-4,14-*retro*-retinol; Embryonic exposure (Tzimas, G. (1301) 1)

Transglutaminase; Erythroleukemia cell (HEL); Alternative splicing (Fraij, B.M. (1306) 63)

Retinoid; Metabolism; Keratinocyte; Albumin; Retinoic acid uptake (Hodam, J.R. (1311) 102)

1α,25-Dihydroxyvitamin D_3; HL60; Aldoketoreductase; Differentiation; Leukemia (Bunce, C.M. (1311) 189)

Neuronal differentiation; Cellular aggregation; Immunohistochemistry; Patch clamp; (Embryonic stem cell) (Van Inzen, W.G. (1312) 21)

In vitro synthesis; Sertoli cell; Peritubular cell; Cellular retinol binding protein (Cavazzini, D. (1313) 139)

Aryl hydrocarbon receptor; Dioxin; Keratin; ARNT protein; Psoriasis (Wanner, R. (1317) 105)

***trans*-Retinoic acid**
Gelatinase B; Protein kinase C; Lipopolysaccharide (Houde, M. (1310) 193)

Retinoic acid receptor
Fatty acid; Fibrate; Gene expression; Hypolipidemic drug; Lipid metabolism; Nuclear hormone receptor; PPAR; Transcription (Schoonjans, K. (1302) 93)

Gene structure; 5′-Untranslated region (Toulouse, A. (1309) 1)

Retinoic acid synthesis
Cytochrome *P*-450 1A1; Purification; Citral; α-Naphthoflavone (Tomita, S. (1290) 273)

Retinoic acid uptake
Retinoic acid; Retinoid; Metabolism; Keratinocyte; Albumin (Hodam, J.R. (1311) 102)

Retinoid
RAR; RXR; Nuclear receptor; Transcription factor; Retinoic acid; Selective ligand (LeMotte, P.K. (1289) 298)

Retinol-binding protein; Transthyretin; Macromolecular interaction; Fluorescence anisotropy (Malpeli, G. (1294) 48)

Retinoic acid; Metabolism; Keratinocyte; Albumin; Retinoic acid uptake (Hodam, J.R. (1311) 102)

Retinol
Retinoic acid; UDP-glucuronosyl transferase; Glucuronidation; Isomerization; Rat liver microsome; Enzyme induction (Genchi, G. (1289) 284)

Colchicine; Transthyretin; Microsome; (Rat); (Golgi) (Ritter, S.J. (1290) 157)

Cyclodextrin; Liposome; Dehydroepiandrosterone; Dexamethasone; Drug delivery (McCormack, B. (1291) 237)

Retinoic acid; Vitamin A metabolism; 14-Hydroxy-4,14-*retro*-retinol; Embryonic exposure (Tzimas, G. (1301) 1)

Retinol-binding protein
Retinoic acid; Temarotene; Acitretin; *N*-(4-Hydroxyphenyl)retinamide; Hydrolase; (Rat) (Ritter, S.J. (1291) 228)

Retinoid; Transthyretin; Macromolecular interaction; Fluorescence anisotropy (Malpeli, G. (1294) 48)

Retinyl palmitate
Postprandial lipemia; Remnant lipoprotein metabolism; Chylomicron; Triglyceride; Gel chromatography (Orth, M. (1303) 22)

Retroconversion
Polyunsaturated fatty acid; Docosahexaenoic acid; Δ^6-Desaturase; Δ^4-Desaturase; Human retinoblastoma; Human leukemia (Marzo, I. (1301) 263)

Retroposon
Processed pseudogene; Laminin receptor precursor, 37 kDa; p40 ribosome-associated protein; Ribosome-associated protein (Jackers, P. (1305) 98)

Retrovirus budding
Liposome; Nanoparticle; pH sensitivity (Ropert, C. (1310) 53)

Reversal potential
Whole-cell recording; Internal perfusion; Sodium ion depletion; Sodium pump current; Ionic gradient; (Cardiac Purkinje cell) (Glitsch, H.G. (1278) 137)

Reverse cholesterol transport
HDL; Cholesterol efflux; Reconstituted HDL; Macrophage (Bernini, F. (1299) 103)

Arteriosclerosis; Cholesterol; Cholesteryl ester; Peroxidation; Lipoprotein; α-Tocopherol (Stein, O. (1299) 216)

HDL; Pre-β HDL; Apolipoprotein A-I (Barrans, A. (1300) 73)

Reverse transcribed-polymerase chain reaction
Hb H disease; Terminating codon mutation (Smetanina, N.S. (1315) 188)

Reverse transcription
HIV; Primer-binding-site; RibonucleaseH; Pausing; Strand-transfer (Pop, M.P. (1307) 193)

Reverse transcription-polymerase chain reaction
GTPase; Gene *50K*; Amino acid sequence; Cotranscription; (*Synechocystis* sp. PCC 6803) (Geisler, M. (1309) 189)

Reverse transcription polymerase chain reaction
Gliostatin; Enzyme immunoassay; Platelet-derived endothelial cell growth factor; Distribution; Expression (Matsukawa, K. (1314) 71)

Reversible inhibition
Phospholipase A_2, 14 kDa type II; Protamine; Heparin; Platelet sPLA2 activity and release (Emadi, S. (1300) 226)

Reye's syndrome
Fatty acid β-oxidation; Palmitic acid; Octanoic acid; Influenza B virus; Surfactant; Acute hepatic encephalopathy; (Mouse liver) (Murphy, M.G. (1315) 208)

RH dye
Potential sensitivity; Membrane; Boundary potential; Adsorption; ATPase, Na^+/K^+- (Malkov, D.Yu. (1278) 197)

Rheumatoid arthritis
Autoimmunity; Peptide; Peptide motif; T cell epitope prediction; HLA-DR; Major histocompatibility complex class II (Friede, T. (1316) 85)

Rhizomelic form of chondrodysplasia punctata
3-ketoacyl-CoA thiolase; Disorder; Peroxisome; Fibroblast (Motley, A.M. (1315) 153)

Rhodamine 123
Mitochondrial potential; Biguanide; Phenylephrine; Calcium ion oscillation (Ubl, J.J. (1276) 124)

Rhodobacter capsulatus
bc_1 complex; Cytochrome *b* mutants; *Saccharomyces cerevisiae*; Energy transduction; Photosynthesis and respiration (Brasseur, G. (1275) 61)

Rhodopseudomonas acidophila
Photosynthetic Light harvesting system; Light harvesting complex; Energy transfer dynamics; Purple bacterium (Monshouwer, R. (1275) 70)

Rhodopsin
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5S rRNA gene
5S rRNA; Evolution (Szymański, M. (1308) 251)

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Ceramide; Phase behavior; X-ray diffraction; (Porcine) (Bouwstra, J.A. (1300) 177)

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Streptozotocin-diabetes
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Structural analysis
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NMR; Peptide; Integrin; Receptor; Binding (Mayo, K.H. (1296) 95)

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Subcellular distribution
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Subcellular localization
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Subdomain function
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Proline-specific peptidase; Prolyl endopeptidase; Dipeptidyl peptidase IV; Phosphorylation; (Modification) (Kaspari, A. (1293) 147)

Substrate binding
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N^{10}-Formyltetrahydrofolate synthetase; Site-directed mutagenesis; Enzyme mechanism; (*C. cylindrosporum*) (Kounga, K. (1296) 112)

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Substrate docking
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Subunit interaction
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Subunit rotation
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Sucrose-rich diet
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Sugar
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Sugar transport
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Suicide inactivation
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Sulfate
Familial amyloidotic polyneuropathy; Transthyretin variant; Amyloid formation; Fluorimetric assay; Kinetic study (Bonifácio, M.J. (1316) 35)

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Sulfate transport
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Sulfatide
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Glycolipid biosynthesis; EGF; Genistein; Tyrosine kinase inhibitor (Balbaa, M. (1299) 141)

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Sulfhydryl–disulfide interchange
Glycoprotein, multidomain; Thrombospondin 1; Monoclonal antibody; Inflammation; Cell-matrix interaction; (Human rheumatoid synovial fluid) (Matthias, L.J. (1296) 138)

Sulfhydryl group reactivity
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Sulfopeptide
Agonist; Anomer; Antagonist; Antigen; Glycopeptide; Phosphopeptide; Secondary structure; Serum stability (Otvos Jr., L. (1313) 11)

Sulfoquinovosyldiacylglycerol
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Sulfotransferase
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Superoxide
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Superoxide anion
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Isotorachrysone; Lipid peroxidation; Peroxyl radical; Hydroxyl radical; LDL; Free radical; Antioxidant (Hsiao, G. (1298) 119)

C_2-ceramide; *N*-Formylmethionylleucyl phenylalanine; Polymorphonuclear leukocyte; Protein kinase C; Phospholipase D; (Human) (Richard, A. (1299) 259)

Superoxide anion radical
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Superoxide dismutase
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Superoxide generation
Free fatty acid; Human neutrophil; Lysosomal enzyme; Degranulation; Myeloperoxidase (Ishida-Okawara, A. (1314) 239)

Supersecondary structure
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Supported lipid bilayer
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Suprachiasmatic nucleus
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Surface balance
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Surface binding
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Surface denaturation
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Surface-enhanced resonance Raman spectroscopy
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Surface linkage
Liposomal antigen; Antigen; Biodistribution; Encapsulation (Thérien, H.-M. (1280) 91)

Surface pH
Hydroxycoumarin; Serum albumin; Fatty acid; Phospholipase assay; Spectrophotometric recording; (Bovine) (Demant, E.J.F. (1304) 43)

Surface plasmon resonance
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Surface potential
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Membrane hydration; Hydrodynamic shear boundary; Membrane curvature; Monovalent cation association; Fluorescence probe (Kraayenhof, R. (1282) 293)

Surface pressure
Dipyridamole; Langmuir monolayer; Drug localization; Surface potential (Borissevitch, G.P. (1278) 12)

Surfactant
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Fatty acid β-oxidation; Palmitic acid; Octanoic acid; Reye's syndrome; Influenza B virus; Acute hepatic encephalopathy; (Mouse liver) (Murphy, M.G. (1315) 208)

Surfactant apoprotein
Surfactant; Membrane fusion; Kinetics; Tubular myelin; Myelin (Poulain, F.R. (1278) 169)

Surfactant protein A
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SV40
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Swelling
Oxidative phosphorylation efficiency; Mitochondrion; External osmolarity; Matrix volume; Adenine nucleotide carrier; (Rat liver) (Devin, A. (1273) 13)

Symbiotic plasmid
mcpA gene; Chemoreceptor; Hydrogenase; (*Rh. leguminosarum*) (Brito, B. (1308) 7)

Symmetry
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Symport
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Synaptic vesicle structure
Acetylcholine storage; Vesamicol; VP_2 synaptic vesicle; Density gradient; (*T. californica*) (Gracz, L.M. (1292) 293)

Synaptosome
Energy parameter; Energy metabolism; Glycolysis (Erecińska, M. (1277) 13)

Sodium–calcium ion exchange; Chlorotetracycline; Fluorescence; Calcium ion flux; Plasma membrane (García-Martín, E. (1280) 257)

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Lipid peroxidation; Iron chelation; Free-radical scavenger; Antioxidant; Polyphenol, green tea; EPR; (Rat) (Guo, Q. (1304) 210)

Synchrotron radiation
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Synergy
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Synthesis
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T

T22
Anti-HIV peptide; Surface plasmon resonance; gp120; CD4; Tachyplesin (Tamamura, H. (1298) 37)

Tachyplesin
Anti-HIV peptide; T22; Surface plasmon resonance; gp120; CD4 (Tamamura, H. (1298) 37)

Tamm-Horsfall protein
Collecting duct; Calcium ion; Hybridization, in situ; Immunohistochemistry; Kidney; (*Cricetomys gambianus*); (African giant rat) (Moutairou, K. (1313) 187)

Tandem promoter
AMP deaminase; Chromosomal localization; Myoadenylate deaminase deficiency (Mahnke-Zizelman, D.K. (1306) 75)

AMP deaminase; Chromosomal localization (Mahnke-Zizelman, D.K. (1308) 122)

Tangier disease
Cholesterol efflux; Apolipoprotein A-I; Apolipoprotein E; HDL subclass (Von Eckardstein, A. (1301) 255)

T antigen
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Targeted gene disruption
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Taste, bitter
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Tau protein
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Taurine
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Taurocholate
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Tax_1 binding protein
HTLV-1; Tax_1 (Mireskandari, A. (1306) 9)

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T cell activation
NMR; Neutral lipid; Phosphocholine; Phosphatidylcholine (Veale, M.F. (1303) 215)

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T cell epitope prediction
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T84 cell
Heat-stable enterotoxin; Human ST receptor; Monoclonal antibody (Garrett, B.M. (1317) 149)

Teleost
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Temarotene
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Temperature-induced phase separation
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Temperature sensitivity
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Terbium
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Terbutaline
Pneumocyte type II; Protein kinase A; Calpain (Zimmerman, U.-J.P. (1311) 117)

Terminal oxidase
Archaea; Hyperthermophile; Electron transport; ATPase; Energy conservation; (*Sulfolobus*) (Schäfer, G. (1277) 163)

Terminating codon mutation
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Testis
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Testis specific transcript
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Testosterone
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Testosterone-repressed prostate message-2
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Apolipoprotein J; Sulfated glycoprotein-2; Clusterin expression; Apoptosis; Serum deprivation-induced cell death (Fratelli, M. (1311) 71)

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Tetraethylammonium
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Tetrahydrofuran
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c-*Fes*; Promoter region; Transcription initiation; Negative regulatory element; K562 cell; Myeloid leukemia cell (He, Y. (1306) 179)

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Th1
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Phosphatidylserine; Erythrocyte; Phagocytosis; Aminophospholipid translocase (Srinivasan, P.T. (1285) 65)

Thapsigargin
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Theca
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Theoretical analysis
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Theoretical model
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Thermal denaturation
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Thermal equilibrium
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Thermal hysteresis
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Thermal stability
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Collagen type I; Protein–salt interactions; DSC; Protein electrostatics; Hofmeister effect; (Calf skin) (Komsa-Penkova, R. (1297) 171)

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Cationic liposome; Bacterial biofilm; Langmuir adsorption isotherm; (*S. epidermidis*) (Sanderson, N.M. (1283) 207)

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Thermoinactivation
β-1,3-Glucanase; Circular dichroism; Nuclear magnetic resonance; (*O. xanthineolytica*) (Parrado, J. (1296) 145)

Pantetheine hydrolase; Thermostability (Pitari, G. (1298) 31)

Thermophile
C-Phycocyanin; Biliprotein; Photosynthesis (Edwards, M.R. (1276) 64)

α-Glucosidase; Extreme thermophile; Archaebacterium; Thermostabilization; Immobilization; (*Thermococcus*) (Piller, K. (1292) 197)

Heat shock protein; *groEL* gene; Cyanobacterium; GroEL protein; Chaperonin (Furuki, M. (1294) 106)

Neutral proteinase; (*Bacillus*) (Saul, D.J. (1308) 74)

Thermophilic
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Thermostability
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Differential scanning calorimetry; Organic solvent; Ionic strength; Sorbitol; Water activity (Öste-Triantafyllou, A. (1295) 110)

Pyrimidine nucleotide biosynthesis; Pyrimidine salvage; Allosteric enzyme; Phosphoribosyl pyrophosphate; (*S. shibatae*); (*E. coli*) (Linde, L. (1296) 16)

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Thioredoxin gene
Thioredoxin: (*C. nephridii*) (Lim, C.-J. (1307) 13)

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Maltooligosyltrehalose; Gene cloning; Nucleotide sequence; (*Sulfolobus*) (Maruta, K. (1291) 177)

Trehalase; Extracellular trehalase; Intracellular trehalase; (*S. thermophilum*) (Kimiko Kadowaki, M. (1291) 199)

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Trichosporin
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Absorbance-detected magnetic resonance; Photosynthesis; Mutant; Bacterial reaction center (Vrieze, J. (1276) 221)

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Diabetic cardiomyopathy; Diabetic heart; Troponin I phosphorylation; Cardiac troponin I (Liu, X. (1316) 78)

Troponin I phosphorylation
Diabetic cardiomyopathy; Diabetic heart; Troponin I gene expression; Cardiac troponin I (Liu, X. (1316) 78)

Trout
Desaturation; Elongation; Docosahexaenoic acid; Hepatocyte; Microsome (Buzzi, M. (1299) 235)

Trypanosome
Sulfhydryl group reactivity; Phospho*enol*pyruvate; Carboxykinase; Transition metal ion; Activation; (*T. cruzi*) (Jurado, L.A. (1292) 188)

Kinetoplast; Mitochondrion; RNA editing; Guide RNA (Arts, G.J. (1307) 39)

Trypomastigote
Inositol phospholipid; (*T. cruzi*) (Uhrig, M.L. (1300) 233)

Trypsin
Cold adaptation; Antarctic fish; Three-dimensional structure; (*P. magellanica*) (Genicot, S. (1298) 45)

Trypsin inhibitor
Ovoinhibitor; Domain I; Association constant; Amino acid composition; Molecular weight; (Chicken) (Galzie, Z. (1293) 113)

Trypsin proteolysis
Annexin I; Mutagenesis; Liposome aggregation; Self-association (Porte, F. (1293) 177)

Tryptophan
Ion channel; Alamethicin; Free radical; Ionizing radiation (Zeidler, U. (1281) 73)

Glutathione *S*-transferase; Fluorescence; Ligand binding; Structure; (Rat) (McCarthy, R.M. (1293) 185)

Xylose reductase; NADPH specific; Acrylamide quenching; 1-Anilino-8-napthalene sulfonate; Inactivation kinetics; (*N. crassa*) (Rawat, U.B. (1293) 222)

Subfragment 1; Bent conformation; ATPase; Nucleotide analog; Energy transduction (Park, S. (1296) 1)

Histidine; Active site; Endo-polygalacturonase; Reaction mechanism; (*A. ustus*) (Rao, M.N. (1296) 167)

α-Galactosidase; α-*N*-Acetylgalactosaminidase; Site-directed mutagenesis; (*Pichia pastoris*) (Zhu, A. (1297) 99)

Tryptophanase
Pyridoxal phosphate; Quasi-substrate; Circular dichroism; Mutant enzyme; Fluorescence; (*E. coli*) (Ben-Kasus, T. (1294) 147)

Tryptophan-containing peptide
mRNA cap-analogue; Oligopeptide; NMR; Stacking interaction; Molecular recognition (Stolarski, R. (1293) 97)

Tryptophan fluorescence
ATP synthase, F_1F_0-; ATPase, F_1-; Catalytic mechanism; Nucleotide binding site (Weber, J. (1275) 101)

Rhodopsin–cholesterol interaction; Cholesterol; Cholestatrienol; Ergosterol; Rod outer segment disk membrane; (Bovine) (Albert, A.D. (1285) 47)

Tryptophan residue
Orosomucoid; Fluorescence emission anisotropy (Albani, J.R. (1291) 215)

Tubular myelin
Surfactant; Surfactant apoprotein; Membrane fusion; Kinetics; Myelin (Poulain, F.R. (1278) 169)

Tubulin
ATP; GTP; Binding site; Distance mapping; Microtubule; NMR (Rai, S.S. (1292) 77)

Tumor
Liposome; Distribution; Size; Membrane fluidity; Bone marrow (Nagayasu, A. (1278) 29)

Tumor cell
Glutathione *S*-transferase-π; Monomer; Platelet; ELISA (Kura, T. (1292) 317)

Tumor cytotoxicity
Phosphatidylserine; Cytotoxicity; Muramyl dipeptide; Lipopolysaccharide; Liposome; Macrophage; (Liver) (Daemen, T. (1285) 219)

Tumorigenic cell line
Antiproliferation; Deoxyhypusine synthase; Eukaryotic translation initiation factor 5A; Cell growth (Shi, X.-P. (1310) 119)

Tumor marker
Hepatocellular carcinoma; Gel display; Subtractive-hybridization (Wu, C.-G. (1315) 169)

Tumor necrosis factor
Phospholipase A_2; Arachidonic acid; Airway epithelial cell (Wu, T. (1310) 175)

Antisense oligonucleotide; Cytokine; Lymphotoxin; Cell-free extract (Lefebvre d'Hellencourt, C. (1317) 168)

Cytokine; Gaucher disease (Michelakakis, H. (1317) 219)

Tumor necrosis factor-α
Intercellular adhesion molecule-1; Phorbol myristate acetate (Fritz, S. (1312) 255)

M-CSF; Mesangial cell; Monocyte; Protein kinase; Signal transduction (Kamanna, V.S. (1313) 161)

Tumor suppressor
S29 ribosomal protein; K*ras*-1 (Kondoh, N. (1313) 41)

Tumor suppressor gene p53
Apoptosis; Liver ischaemic atrophy; Hydronephrosis (Cummings, M.C. (1315) 100)

Two-dimensional crystallization
Light harvesting complex; Photosynthesis; Purple bacterium; Electron microscopy; (*Ectothiorhodospira sp.*); (*Rb. capsulatus*) (Oling, F. (1273) 44)

Two-dimensional gel electrophoresis
ATP:AMP phosphotransferase; Protein *N*-acetylation; N-terminal processing; Cotranslational import; Mitochondrion; (*S. cerevisiae*) (Klier, H. (1280) 251)

Invertebrate hemoglobin; Hemoglobin; Linker chain; Amino-terminal amino acid sequence; (*L. terrestris*) (Fushitani, K. (1292) 273)

Two-electron reduction
NADPH-quinone reductase; Induction; 2-Methylene-4-butyrolactone; Drug activity modulator; (*E. coli*) (Hayashi, M. (1273) 165)

Two-hybrid system
ATPase, F_1-; Subunit interaction (Moritani, C. (1274) 67)

NADPH oxidase; Neutrophil (Fuchs, A. (1312) 39)

Type I collagen
C-terminal propeptide; Osteoblast; Cell attachment (Mizuno, M. (1310) 97)

Type I fatty acid synthase
Fatty acid biosynthesis; Type II fatty acid synthase; (*E. coli*) (Rock, C.O. (1302) 1)

Type II cell
Lung development; Surfactant (Kresch, M.J. (1299) 39)

Type II fatty acid synthase
Fatty acid biosynthesis; Type I fatty acid synthase; (*E. coli*) (Rock, C.O. (1302) 1)

Type III-9 repeat
Fibronectin; Cartilage; Chondrogenesis; Alternative splicing (Gehris, A.L. (1311) 5)

Type II transglutaminase
Articular chondrocytes; Collagen synthesis; Differentiation; Cell growth; Adhesion (Borge, L. (1312) 117)

***tyrB* gene**
Aromatic amino acid aminotransferase; Aspartate aminotransferase; (*S. typhimurium*) (Nakai, Y. (1308) 189)

Tyrosine kinase
Genistein; Daidzein; Leiomyosarcoma cell; Sodium ion current; Whole-cell voltage clamp; (Uterine smooth muscle) (Kusaka, M. (1278) 1)

Cell cycle; Cell adhesion; Tyrosine kinase inhibitor (Kuzumaki, T. (1310) 185)

Pioglitazone; EGF receptor (Takata, Y. (1312) 68)

Tyrosine kinase inhibitor
Glycolipid biosynthesis; EGF; Genistein; Sulfatide (Balbaa, M. (1299) 141)

Cell cycle; Cell adhesion; Tyrosine kinase (Kuzumaki, T. (1310) 185)

Tyrosine nitration
Cytochrome *P*-450; Nitric oxide; Heme; Surface-enhanced resonance Raman spectroscopy (Quaroni, L. (1296) 5)

Tyrosine-phosphorylated protein
Leukocyte; Phospholipase C; NADPH oxidase; Pervanadate; Translocation (Kawakami, N. (1314) 167)

Tyrosine phosphorylation
L-selectin; Sulfatide; Oxygen radical; Neutrophil; Adenosine; Calcium (Bengtsson, T. (1313) 119)

Platelet; Prostaglandin E_1; Thrombin; ADP; Focal adhesion kinase (Vostal, J.G. (1314) 1)

Tyrosine residue
Nitration; Placental lactogen; Lactogenic receptor; Somatogenic receptor; (Ovine) (Cymes, G.D. (1294) 31)

U

U-50488H
Ornithine decarboxylase; Gene expression; Opioid (Flamigni, F. (1311) 204)

Ubiquinol
Ubiquinone; Plastoquinone; Plastoquinol; Fluorescence anisotropy; Diphenylhexatriene (Skowronek, M. (1280) 115)

Ubiquinol cytochrome *c* reductase
Aging; Mitochondrial respiration; Respiratory chain; Cytochrome *c* oxidase; Cytochrome (Boffoli, D. (1315) 66)

Ubiquinol cytochrome *c* reductase
Mitochondrial disease; Cytochrome *b*; Human pathology; Antimycin A; Myxothiazol (Bouzidi, M.F. (1317) 199)

Ubiquinone
Cytochrome bc_1 complex; Q-cycle; Charge-transfer mechanism; Deprotonation (Brandt, U. (1275) 41)

Plastoquinone; Ubiquinol; Plastoquinol; Fluorescence anisotropy; Diphenylhexatriene (Skowronek, M. (1280) 115)

Vitamin K; γ-Carboxyglutamate; Vitamin K epoxide reductase; Carboxylase; Coenzyme Q; Plastoquinone (Ronden, J.E. (1298) 87)

Polyprenyl diphosphate synthase; Isoprenoid (Okada, K. (1302) 217)

Squalene synthase; Dolichol; Isoprenoid pyrophosphate; Squalestatin; Zaragozic acid (Keller, R.K. (1303) 169)

Ubiquitin
Multi-ubiquitin chain; Radioimmunoassay; Specificity (Takada, K. (1290) 282)

U937 cell
Heat shock protein hsp70; Ionic channel; Potassium conductance; Patch clamp (Negulyaev, Yu.A. (1282) 156)

Arachidonic acid; Intracellular calcium regulation; Phospholipase A_2; Cytosol; Calcium influx factor (Rzigalinski, B.A. (1299) 342)

Advanced glycosylation end product; Atherosclerosis; Autoxidation (Dobrian, A. (1317) 5)

UDP-glucuronic acid
Endoplasmic reticulum; Transport; Glucuronidation; (Rat liver) (Battaglia, E. (1283) 223)

UDP-glucuronosyl transferase
Retinoic acid; Retinol; Glucuronidation; Isomerization; Rat liver microsome; Enzyme induction (Genchi, G. (1289) 284)

UDPG-pyrophosphorylase
Trehalose; *MAL4*^{C}; Gal3; Catabolite repression (Dutra, M.B. (1289) 261)

Ultrafast absorbance transient
Circular dichroism; Energy migration; Light harvesting chlorophyll *a*/*b* complex (LHCII); Psi-type aggregate; Singlet-singlet annihilation (Barzda, V. (1273) 231)

Ultrasound
Cytochrome *c*; Fe(II); Oxidation (Barteri, M. (1296) 35)

Ultrastructure
Liposome; Reporter gene; Gene expression; LacZ; β-Galactosidase; Cytofectin; Atomic force microscopy (Wheeler, C.J. (1280) 1)

Ultrathin lipid membrane
Valinomycin; Bolaform archaeal lipid; Conduction channel; Permeation (Gliozzi, A. (1283) 1)

Ultraviolet A
Adenylyl cyclase; Khellin; G protein; Pertussis toxin; HeLa cell (Di Stefano, A. (1314) 105)

Ultraviolet B
RT-PCR; Radioimmunoassay; Melanocyte stimulating hormone; Adrenocorticotropin (Chakraborty, A.K. (1313) 130)

Ultraviolet light
Phospholipase A_2, cytosolic; Keratinocyte; Oxidative stress; Synthesis; Prostaglandin (Chen, X. (1299) 23)

Umbilical vein
Platelet; Calcium ion; Endothelial cell; Fura-2; (Human) (Van IJzendoorn, S.C.D. (1311) 64)

U138MG cell
Astrocytoma; Endothelin; Endothelin receptor; Receptor internalization; Phosphatidylinositol hydrolysis; (Human) (Wu-Wong, J.R. (1311) 155)

2,4-dithio-dUMP
Thymidylate synthase; Inhibition; 2,4-dithio-5-fluoro-dUMP; Aromaticity (Dzik, J.M. (1293) 1)

2,4-dithio-5-fluoro-dUMP
Thymidylate synthase; Inhibition; 2,4-dithio-dUMP; Aromaticity (Dzik, J.M. (1293) 1)

Unbinding force
Intermolecular force; Bond lifetime; Surface denaturation; Actin–actinin bond (Miyata, H. (1290) 83)

Uncoupling
Membrane transport; Mutant; Calcium-transporting ATPase; Energy transduction; Conformational change (Andersen, J.P. (1275) 118)

Unfolding
Kinetics; Irreversibility; Aggregation; Stability (Srinivasulu, S. (1294) 115)

Light chain; Light chain deposition disease; Amyloidosis (Bellotti, V. (1317) 161)

Unfolding intermediate
Phosphatase; Purple acid phosphatase; Denaturation; Intersubunit disulfide bond; (Red kidney bean) (Cashikar, A.G. (1296) 76)

Cytochrome *c*; Hemoprotein; Voltammetry; Circular dichroism (Ferri, T. (1298) 102)

Unsaturated fatty acid
Cytokine; Endothelial cell; Antioxidant; Antioxidant enzyme; Conjugated diene; (Human) (Crosby, A.J. (1303) 187)

Unstirred layer
Permeability; Fatty acid; Bilayer lipid membrane; Monocarboxylic acid (Evtodienko, V.Yu. (1281) 245)

Unstirred water layer
Aging; Microclimate pH; pH; Sodium ion/proton antiporter; Water layer, unstirred; (Rat jejunum) (Ikuma, M. (1280) 19)

Untranslated region
Water channel; 3′-UTR sequence; Aquaporin; *AQP-1*; Retinal pigment epithelium; (Human RPE) (Ruiz, A. (1282) 174)

5′-Untranslated region
Retinoic acid receptor; Gene structure (Toulouse, A. (1309) 1)

FMR1 gene; mRNA; RNA-protein binding (Iber, H. (1309) 167)

Uptake
Oligonucleotide; Macrophage; Endocytosis; Mannose receptor; Endosome (Liang, W.W. (1279) 227)

Putrescine; Spermidine; Transport; Erythrocyte; Export (Fukumoto, G.H. (1282) 48)

Intact chloroplast; Maltose; Maltodextrin; Kinetics; (Spinach) (Rost, S. (1291) 221)

Urate monohydrate crystal, monosodium
Sodium urate crystal; Hemolysis; Erythrocyte; Membrane pore (Jackson, J.K. (1281) 45)

Urea
Estradiol 17β-dehydrogenase; Denaturation; Molten globule; (Human placenta) (Mendoza-Hernández, G. (1297) 219)

Urea transporter
Thiourea; pCMBS; Phloretin; Brain; (*Xenopus* oocyte) (Couriaud, C. (1309) 197)

Urine
Urocanic acid; *N*-Acetyl-L-cysteine; Histidine; NMR spectrometry; Mass spectrometry; (Human); (Rat) (Kinuta, M. (1291) 131)

β-Mannosidase; Purification; Kidney; (Human) (Guadalupi, R. (1293) 9)

Urocanic acid
Urine; *N*-Acetyl-L-cysteine; Histidine; NMR spectrometry; Mass spectrometry; (Human); (Rat) (Kinuta, M. (1291) 131)

Uroporphyrinogen decarboxylase
Heme; Mutagenesis (Wyckoff, E.E. (1298) 294)

Ursodeoxycholic acid
Verapamil; Nifedipine; Diltiazem; Calcium antagonist; LDL metabolism; (Hamster hepatocyte) (Bouscarel, B. (1301) 230)

Utrophin
Dystrophin; Sarcolemma; Cytoskeleton; Muscle (Ohlendieck, K. (1283) 215)

3′-UTR sequence
Water channel; Untranslated region; Aquaporin; *AQP-1*; Retinal pigment epithelium; (Human RPE) (Ruiz, A. (1282) 174)

V

***cis*-Vaccenic acid methyl ester**
Phospholipid; Phosphatidylcholine; Non-phosphorus ornithinolipid; Phosphate limitation; (*H. vulgare*) (Batrakov, S.G. (1302) 129)

Vaccinia
Brain; Anionic amino acid; Serine (Tamarappoo, B.K. (1279) 131)

Vacuole
ATPase, vacuolar; Proton pump; Ribosome; (*N. crassa*) (Melnik, V.I. (1273) 77)

Crassulacean acid metabolism; Expression; ATPase, H^+-; Salt stress; Subunit E; Tonoplast; (*M. crystallinum*); (Tissue) (Dietz, K.-J. (1281) 134)

Valinomycin
Membrane transport; Ion transport; Phospholipid vesicle; Proton uncoupler (Prabhananda, B.S. (1282) 193)

Ultrathin lipid membrane; Bolaform archaeal lipid; Conduction channel; Permeation (Gliozzi, A. (1283) 1)

Vanadate
Acidification; ATPase, H^+-, vacuolar; Proton transport; (Kidney) (David, P. (1280) 155)

Phospholipid asymmetry; Prothrombinase assay; Erythrocyte membrane vesicle; Membrane skeleton; Aminophospholipid translocase (De Jong, K. (1281) 101)

Glucose transport; GLUT4 intrinsic activity; Skeletal muscle (Kristiansen, S. (1282) 71)

Phospholipase C; NMR, ^{51}V-; Competitive inhibition; Surface binding (Tan, C.A. (1298) 58)

Peroxovanadate; Insulin binding; Insulin degradation; Glucose transport; Rat adipocyte (Yu, Z.-W. (1310) 103)

Vanadate action
Insulin action; PTPase; Phenylarsine oxide (Li, J. (1312) 223)

Vascular endothelial cell
Angiogenesis inhibitor; Heparin-steroid conjugate; Angiostatic steroid (Derbyshire, E.J. (1310) 86)

Vascular smooth muscle
Magnesium; Calcium ion concentration, cytosolic-free (Yoshimura, M. (1312) 151)

Vascular tone
Endothelium; Nitric oxide; Hypertension; Gene regulation (Gnanapandithen, K. (1308) 103)

Vasoactive intestinal peptide
Adenylyl cyclase; G protein; Peritoneal macrophage; (Rat); (Mouse) (Pozo, D. (1312) 249)

Vasoactive intestinal polypeptide
Pituitary adenylate cyclase-activating polypeptide receptor; PACAP receptor; cDNA cloning; (Mouse) (Hashimoto, H. (1281) 129)

Catalytic antibody; Autoantibody; Light chain; Asthma; Phage display (Tyutyulkova, S. (1316) 217)

Vasodilation
Dinitrosyl iron complex; Iron complex; Nitric oxide (Vanin, A.F. (1295) 5)

Vasopressin
Protein phosphorylation; Rat hepatocyte; Noradrenaline; Angiotensin II; Glucagon (Aggarwal, S.R. (1310) 284)

Venom allergen
Leader sequence; IgE-antibody; Allergy; (*M. pilosula*) (Street, M.D. (1305) 87)

Verapamil
Nifedipine; Diltiazem; Ursodeoxycholic acid; Calcium antagonist; LDL metabolism; (Hamster hepatocyte) (Bouscarel, B. (1301) 230)

Vertebrate
Troponin I; Muscle protein; Molecular sequence data; Evolution; (*Clupea harengus*); (Fish) (Hodgson, P.A. (1306) 142)

Vesamicol
Synaptic vesicle structure; Acetylcholine storage; VP_2 synaptic vesicle; Density gradient; (*T. californica*) (Gracz, L.M. (1292) 293)

Vesicle
Perfluoroalkylated di-*O*-alkylglycerophosphocholine; Phospholipid; Fluorinated liposome; Liposome; Membrane; Permeability (Ravily, V. (1285) 79)

Kinase C; Diacylglycerol; Arachidonic acid; Calcium; Lipid (Schachter, J.B. (1291) 167)

Polyethylene glycolated liposome; Liposome size; Permeability coefficient; Glucose leakage; Poly(ethylene glycol) (Nikolova, A.N. (1304) 120)

Vesicular transport
Calcitonin; Cytochalasin B; Colchicine; Monensin; Aluminum fluoride (Cremaschi, D. (1280) 27)

V gene
Somatic mutation; Gene conversion; DNA context; Immunoglobulin (Rogozin, I.B. (1306) 171)

Viability
Glucose fluorescent derivative; Glucose uptake (Yoshioka, K. (1289) 5)

Vincristine
Liposome; Long-circulating liposome; Cancer therapy (Tokudome, Y. (1279) 70)

Viologen
Nitrate reductase; Nitrate transport; (*Paracoccus denitrificans*) (Kučera, I. (1276) 203)

VIP
Secretin; PACAP; Secretin receptor; VIP_1 receptor; PACAP receptor (Gourlet, P. (1314) 267)

VIP_1 receptor
Secretin; VIP; PACAP; Secretin receptor; PACAP receptor (Gourlet, P. (1314) 267)

Viral activation
Fli-1; Promoter; CAP site; H-DNA; Cas-Br-E integration; Gene regulation (Barbeau, B. (1307) 220)

Viral response element
Gene structure; Interferon; (Antiviral activity); (Rabbit); (Sheep) (Liu, L. (1294) 55)

Virulence factor
Lysophospholipase L_2; Nucleotide sequence; Protein expression; (*V. cholerae*) (Whayeb, S.A. (1300) 1)

Virus-like particle (VLP)
SV40; Recombinant baculovirus; Reconstitution, in vitro; Analytical ultracentrifugation (Kosukegawa, A. (1290) 37)

Viscosity
Monensin; Proton–cation exchange; Dipolar field; Time-resolved polarization; Polarization; Ionic selectivity (Nachliel, E. (1285) 131)

Vitamin A deficiency
Neutrophil; Cathepsin G; Proteinase (Twining, S.S. (1317) 112)

Vitamin A metabolism
Retinoic acid; Retinol; 14-Hydroxy-4,14-*retro*-retinol; Embryonic exposure (Tzimas, G. (1301) 1)

Vitamin B_1
Homocysteine; Homocystinuria; Thiamine; Transamination (Franken, D.G. (1317) 101)

Vitamin D_3
Parathyroid hormone; Bone; Osteoblast; Interaction; Second messenger (Van Leeuwen, J.P.T.M. (1312) 55)

1,25$(OH)_2$-vitamin D_3
Myoblast; Protein kinase C; cyclic AMP; Signal transduction; Calcium ion uptake (Vazquez, G. (1310) 157)

Vitamin E
α-Tocopherol; Macrophage; Prostaglandin E_2; Cyclooxygenase-2; Lipopolysaccharide; (Rat peritoneal macrophage) (Sakamoto, W. (1304) 139)

Vitamin K
γ-Carboxyglutamate; Vitamin K epoxide reductase; Carboxylase; Ubiquinone; Coenzyme Q; Plastoquinone (Ronden, J.E. (1298) 87)

Vitamin K epoxide reductase
Vitamin K; γ-Carboxyglutamate; Carboxylase; Ubiquinone; Coenzyme Q; Plastoquinone (Ronden, J.E. (1298) 87)

Vitelloinhibitor
Ovoinhibitor; Plasma proteinase inhibitor; Ovarian yolk; (*G. gallus*) (Sugimoto, Y. (1295) 96)

Vitrification
Phase transition temperature; Phospholipid; Depression; Sugar (Crowe, J.H. (1280) 187)

Vitronectin
Factor Xa; Plasminogen activator inhibitor-1; Calcium ion; Heparin (Urano, T. (1298) 199)

Haptotaxis; Chemotaxis; $\alpha_v\beta_3$ Integrin; Fibrinogen (Senger, D.R. (1314) 13)

VL30
Enhancer; Cooperative binding; CREB/JUN (Pribnow, D. (1307) 55)

VLDL
Lipoprotein lipase; LDL; Chylomicron; Apolipoprotein E (Carrero, P. (1299) 198)

Acyl CoA:cholesterol acyltransferase inhibitor; LDL receptor; Cholesterol biosynthesis; (Liver) (Graham, A. (1302) 46)

Voltage-dependence
Chloride channel; Ciliary membrane; Bursting activity; IAA-94; (*Tetrahymena*) (Fujiwara-Hirashima, C. (1280) 207)

Voltage-dependent anion-selective channel
Mitochondrial porin; Pesticide; Diafenthiuron; DCCD; Lipid bilayer; (*Protophormia*) (Wiesner, P. (1282) 216)

Voltage-sensitive styryl dye
Styryl dye; Membrane fragment; Rubisco; ATPase, Na^+/K^+-; Fluorescence; Association constant (Frank, J. (1280) 51)

Voltammetry
Cytochrome *c*; Hemoprotein; Unfolding intermediate; Circular dichroism (Ferri, T. (1298) 102)

Volume regulation
Transport kinetics; Osmolality; Amino acid; Taurine; (Rat brain) (Beetsch, J.W. (1290) 141)

Cervical carcinoma; Chloride channel (Shen, M.-R. (1315) 138)

VP_2 synaptic vesicle
Synaptic vesicle structure; Acetylcholine storage; Vesamicol; Density gradient; (*T. californica*) (Gracz, L.M. (1292) 293)

W

Waglerin
Nuclear magnetic resonance; Protein solution structure; Snake venom; Molecular dynamics simulation; (*T. wagleri*) (Chuang, L.-C. (1292) 145)

Warfarin
Progesterone; Reductase, NADPH-coupled; Serum protein; Xenobiotic; Microsome; (Rat liver) (Apanovitch, D. (1291) 16)

Water activity
Differential scanning calorimetry; Organic solvent; Ionic strength; Sorbitol; Thermostability (Öste-Triantafyllou, A. (1295) 110)

Water channel
Untranslated region; 3′-UTR sequence; Aquaporin; *AQP-1*; Retinal pigment epithelium; (Human RPE) (Ruiz, A. (1282) 174)

Water layer, unstirred
Aging; Microclimate pH; pH; Sodium ion/proton antiporter; Unstirred water layer; (Rat jejunum) (Ikuma, M. (1280) 19)

Water-macromolecular interactions
Cross-relaxation time; Mouse lens; NMR; Soft contact lens; Spin diffusion (Kuwata, K. (1289) 369)

Water maze
$n-3$ Polyunsaturated fatty acid; Brain; Phospholipid; Learning ability; (Rat) (Jensen, M.M. (1300) 203)

Water molecule
Hydration; Self-diffusion coefficient; Protein solution (Baranowska, H.M. (1289) 312)

Water oxidation
Photosynthesis; Proton release; Net charge; Electrochromism; Photosystem II; Oxygen-evolving complex (Kretschmann, H. (1274) 1)

Photosystem II; Cytochrome *b*-559 (Hulsebosch, R.J. (1277) 103)

Water-soluble solute
Transporter protein; Lactose carrier protein; Energy coupling; Salt bridge; (*E. coli*) (Varela, M.F. (1276) 21)

WD repeat protein
Nuclear protein family; Murine cDNA; cDNA; Transcriptional regulator (Scamps, C. (1306) 5)

***White* gene**
Multidrug resistance; Transmembrane protein; Embryogenesis (Kuwana, H. (1309) 47)

Whole-cell recording
Internal perfusion; Sodium ion depletion; Sodium pump current; Reversal potential; Ionic gradient; (Cardiac Purkinje cell) (Glitsch, H.G. (1278) 137)

Whole-cell voltage clamp
Tyrosine kinase; Genistein; Daidzein; Leiomyosarcoma cell; Sodium ion current; (Uterine smooth muscle) (Kusaka, M. (1278) 1)

WISH cell
Interleukin-1; Interleukin-4; Interferon; Cyclooxygenase-2; Prostaglandin E_2 (Harding, L. (1310) 48)

Wiskott-Aldrich protein gene
Wiskott-Aldrich syndrome; Splice mutation (Ariga, T. (1317) 158)

Wiskott-Aldrich syndrome
Wiskott-Aldrich protein gene; Splice mutation (Ariga, T. (1317) 158)

Wounding
Phospholipase D; Phosphatidylcholine hydrolysis; Signal transduction; (*Ricinus communis*) (Ryu, S.B. (1303) 243)

Xenobiotic
Warfarin; Progesterone; Reductase, NADPH-coupled; Serum protein; Microsome; (Rat liver) (Apanovitch, D. (1291) 16)

Lipoxygenase; Hydroperoxidase; Lag period; Oxidation; Isoproterenol (Núñez-Delicado, E. (1293) 17)

***Xenopus* oocyte**
Proton-coupled transport; Oligopeptide transport; Intestinal absorption; Membrane transport protein; Transporter (Mackenzie, B. (1284) 125)

X-ray diffraction
Ion distribution; Lipid; Gouy-Chapman theory; Membrane electrostatics (Kirchner, S. (1279) 181)

Differential scanning calorimetry; Drug–membrane interaction; Cannabinoid (Mavromoustakos, T. (1281) 235)

Ether lipid; Platelet activating factor; Antineoplastic agent; Small-angle X-ray diffraction; DSC (Xie, X. (1283) 111)

Phospholipid; Polyenoic lipid; Lipid phase behaviour (Williams, W.P. (1284) 86)

Cholesterol; Phosphatidylethanolamine; Lamellar phase; Inverted hexagonal phase; DSC (Takahashi, H. (1289) 209)

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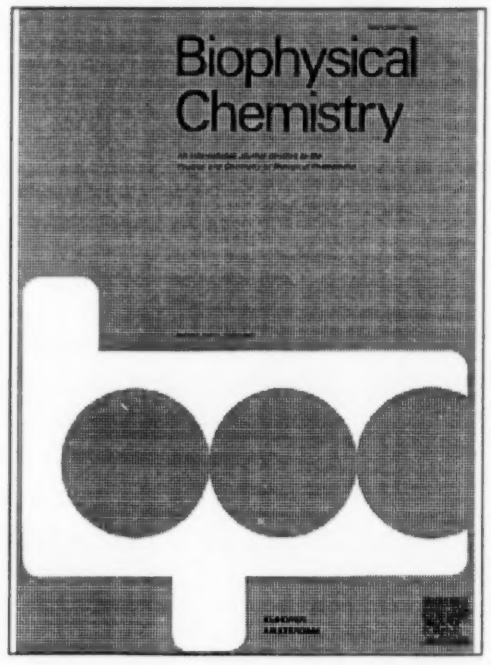

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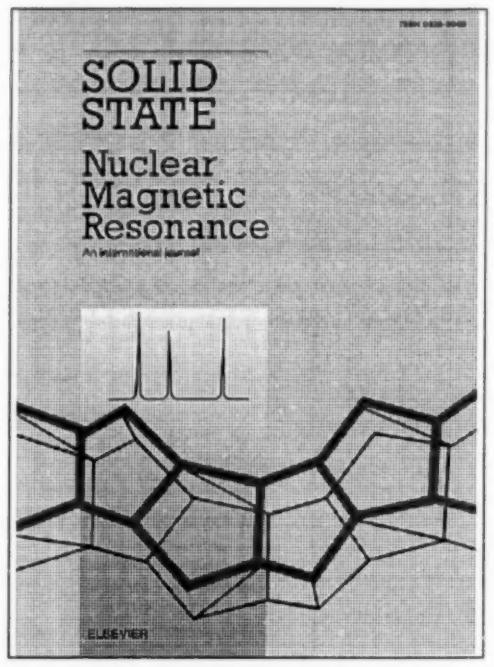

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